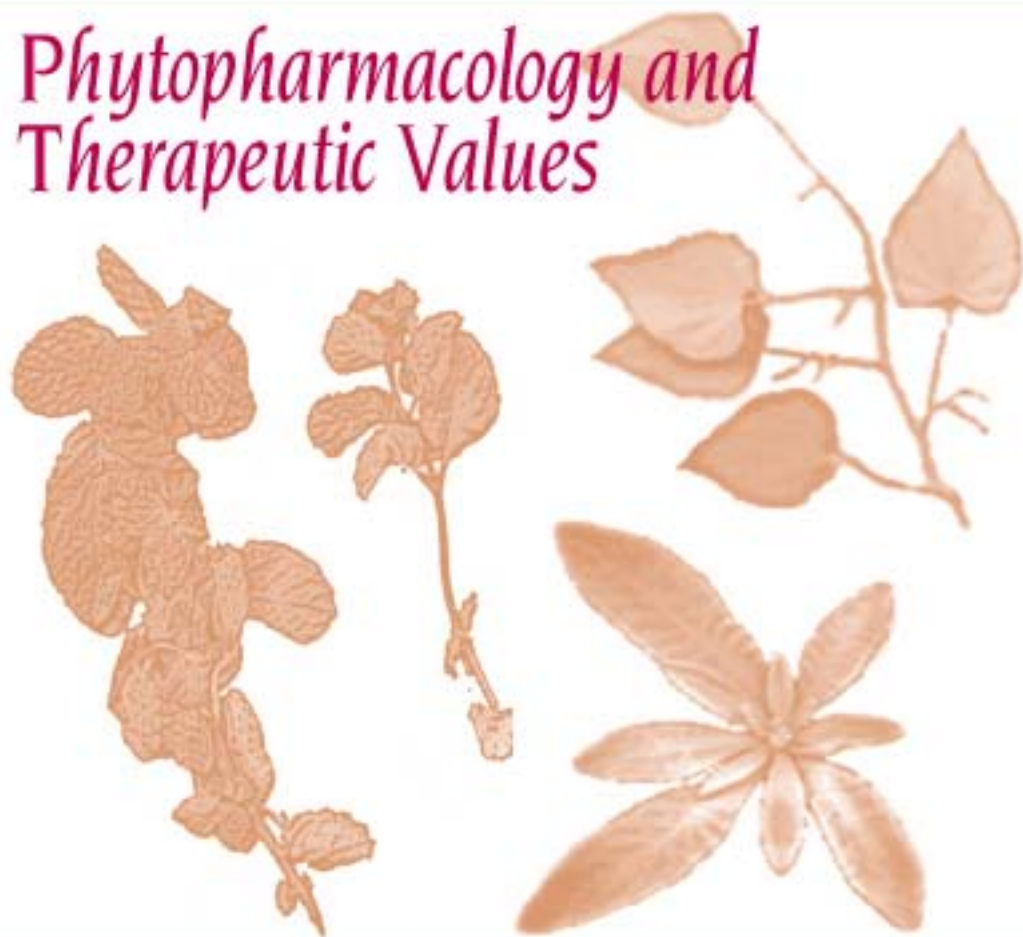


Chinese and Related North American Herbs

*Phytopharmacology and
Therapeutic Values*



Thomas S.C. Li



CRC PRESS

Chinese and Related North American Herbs

*Phytopharmacology and
Therapeutic Values*

Chinese and Related North American Herbs

*Phytopharmacology and
Therapeutic Values*

Thomas S.C. Li, Ph.D.



CRC PRESS

Boca Raton London New York Washington, D.C.

Library of Congress Cataloging-in-Publication Data

Li, Thomas S. C.

Chinese and related North American herbs : phytopharmacology and therapeutic values
/ by Thomas S.C. Li.

p. cm.

Includes bibliographical references (p.).

ISBN 1-58716-128-1 (alk. paper)

1. Materia medica, Vegetable. 2. Materia medica, Vegetable--China. 3. Medicine,
Chinese. 4. Herbs--Therapeutic use. I. Title.

RS164 .L5645 2002

615'.32'0951--dc21

2001052749

This book contains information obtained from authentic and highly regarded sources. Reprinted material is quoted with permission, and sources are indicated. A wide variety of references are listed. Reasonable efforts have been made to publish reliable data and information, but the author and the publisher cannot assume responsibility for the validity of all materials or for the consequences of their use.

Neither this book nor any part may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, microfilming, and recording, or by any information storage or retrieval system, without prior permission in writing from the publisher.

The consent of CRC Press LLC does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific permission must be obtained in writing from CRC Press LLC for such copying.

Direct all inquiries to CRC Press LLC, 2000 N.W. Corporate Blvd., Boca Raton, Florida 33431.

Trademark Notice: Product or corporate names may be trademarks or registered trademarks, and are used only for identification and explanation, without intent to infringe.

Visit the CRC Press Web site at www.crcpress.com

© 2002 by CRC Press LLC

No claim to original U.S. Government works

International Standard Book Number 1-58716-128-1

Library of Congress Card Number 2001052749

Printed in the United States of America 1 2 3 4 5 6 7 8 9 0

Printed on acid-free paper

Foreword

Western researchers are increasingly acknowledging the importance of the traditional herbal preparations that have been the mainstay of Eastern medicine for millennia. Indeed, Western society in general is now consuming numerous herbal medicines, and over-the-counter commercial herbals now compete with prescription pharmaceuticals. Given the European origin of Western society, it is not surprising that European plants dominate the medicinal plant industry of the West. However, Asian medicinal plants are now enthusiastically being incorporated into Western medical practice, most particularly Chinese herbs. Unfortunately, while there is an incredible wealth of knowledge about Chinese herbs, most of this information has been unavailable to Western society, and even the accessible information has often been in obscure sources. The famous 15th century physician Paracelsus taught that the only difference between a medicine and a poison was the dose, so it is critical to know not only what potentially useful chemicals are present in given plant species, but also the potential for toxicity. Lack of knowledge of both the therapeutic and toxic properties of Chinese medicinal herbs has doubtlessly retarded progress toward developing more effective medications.

Chinese and Related North American Herbs by Dr. Thomas Li represents a milestone in educating Western society about a previously unavailable treasure chest of medicinal knowledge.

This book is an authoritative and comprehensive reference guide to a very large number of significant Chinese medicinal herbs. A gold mine of information is available on their chemical constituents and therapeutic applications. This will be extremely useful to a wide range of health-care professionals who deal in one way or another with medicinal plants. The current heated debate regarding the comparative values of traditional herbal preparations and physician-prescribed pharmaceuticals should in no way detract from the value of this book, since Chinese medicinal herbs are not simply useful in herbal form, but also have immense potential for contributing to the development of new pharmaceuticals.

Dr. Li's dual presentation of Chinese herbs and their close North American relatives is a stroke of genius. Charles Darwin was one of the first to be puzzled by the fact that many plants of eastern Asia are remarkably similar to many plants of eastern North America. We now know that this phenomenon is due to the existence of an ancient, continuous temperate flora that became separated by geological and climatic changes. Accordingly, many Chinese herbs can be expected to have similar chemicals and similar medicinal values to their North American counterparts, and Dr. Li presents this extremely important information more competently than anyone to date.

Dr. Li, one of the world's leading authorities on medicinal plants, has dedicated many years of effort to acquiring and condensing the information presented in this reference text. He is to be congratulated on this superb and invaluable synthesis.

Ernest Small, Ph.D.

*Principal Research Scientist
Eastern Cereal and Oilseed Research Centre
Agriculture and Agri-Food Canada
Ottawa, Canada*

Preface

The use of medicinal herbs for treating human disease started in China thousands of years ago. Eighty percent of the world's population is still using traditional medicine, either because they have no access to Western medicine or choose not to use it. Recently, the use of medicinal herbs, especially Chinese herbs and their products, has attracted considerable attention around the world and generated extensive research on their philosophy, principles, and especially the scientific background of the chemical components responsible for their claimed therapeutic value.

Research in Chinese medicinal herbs has been conducted for decades in China, Japan, and Korea and recently in the West. Unfortunately, language barriers and the unreliability of sources and herbal material have hampered progress. A basic scientific understanding of the Chinese herbal preparations is the first step toward building consumer confidence in herbal medications. Proper procedures to eliminate adulteration, contamination, and toxic side effects are also urgently needed to regulate the use of Chinese herbs.

This book is designed to provide researchers with easy access to information on Chinese medicinal herbs compiled from widely scattered sources in the Chinese and Western literature. Table 1 presents current available information on the major constituents and therapeutic values of more than 1800 species of Chinese medicinal herbs. The data are arranged alphabetically by the Latin name followed by the common Chinese and English names. Tables 2 and 3 present data on a total of 700 North American herbs belonging to the same species or genus as Chinese herbs, and a comparison of active ingredients and claimed therapeutic values. Appendices 1, 2, and 3 cross-reference Chinese and scientific names, and major active ingredients and their sources in the Chinese and North American herbs cited in the tables.

The information in this book is primarily for reference and education. It is not intended to be a substitute for the advice of a physician. The uses of medicinal plants described in this book are not recommendations, and the author is not responsible for liability arising directly or indirectly from the use of information in this book.

Acknowledgments

The author thanks Lynne Boyd and Peggy Watson, librarians, for their efforts in the literature search. I also thank my colleagues, Drs. Tom Beveridge, Cheryl Hampson, Dave Oomah, and Peter Sholberg, for their valuable assistance. Finally, I would like to thank my family for their encouragement.

Contents

Part 1. Chinese Medicinal Herbs:
Phytopharmacology and Therapeutic Values 1

Table 1: Major Constituents and Therapeutic Values of Chinese
Medicinal Herbs 4

Part 2. Phyletic Relationships between Chinese and Western
Medicinal Herbs 163

Table 2: Chinese and North American Medicinal Herbs Belonging
to the Same Species: Major Constituents and Therapeutic Values 164

Table 3: Chinese and North American Medicinal Herbs Belonging
to the Same Genus and Different Species: Major Constituents
and Therapeutic Values..... 230

References..... 297

Appendix 1: Chinese and Scientific Names of Chinese Medicinal Herbs..... 325

Appendix 2: Major Chemical Components and Their Sources
in Chinese Medicinal Herbs 365

Appendix 3: Major Chemical Components and Their Sources
in Related North American Medicinal Herbs 487

Index 531

PART 1

Chinese Medicinal Herbs: Phytopharmacology and Therapeutic Values

In spite of the great advances of modern scientific medicine, traditional medicine is still the primary form of treating disease for the majority of people in developing countries, including China. Even among those to whom Western medicine is available, the number of people using one form or another of complementary or alternative medicine is rapidly increasing worldwide.³⁸⁴ In the U.S. alone, the consumption of medicinal herbs is rising at approximately 15% annually.³⁸⁵

Herbal medicine is important to a majority of the world's population, and not only for treating diseases.^{33,50,53,58,270,381,382} Many prescription drugs, such as aspirin, codeine, and digoxin, have their origins in herbal medicines.³⁶³ On the basis of global survey data from 1997, about 119 plant-derived compounds of known structure are currently used as prescription drugs.^{366,369}

With its abundant botanical resources, China has been a pioneer in treating human diseases with medicinal herbs. The medicinal use of herbs in China by tradition has been attributed to a legendary emperor, Shen Nong (3494 BC), who tasted and tested plants and discovered their medicinal properties.^{373,389} The recorded use of plants for medicinal purposes in China dates back to 2800 BC.³⁶⁸ The most comprehensive classic herbal encyclopedia, *Ben Cao Gang Mu*, a description of formulas or prescriptions to treat human diseases, was published in the 16th century by Dr. Li Shizhen (1517–1593 AD).^{373,389} This original *materia medica* recorded over 350 crude drugs; since then a great number of drugs and prescriptions have been added.^{364,372} In 1958, the year of the Great Leap Forward, Chairman Mao declared that Traditional Chinese Medicine (TCM) was a vast treasure chest and challenged the Chinese people to validate its efficacy and to combine the best elements of TCM with modern Western medicine to improve the nation's health-care delivery system.⁵⁰ In 1999, Hong Kong's Chief Executive, Tong Chee-Hwa, announced his intention to develop Hong Kong as a world center for TCM.

In the West, popular demand for and scientific interest in alternative medicine, particularly medicinal herbs, have increased considerably in recent years. The success and acceptance of the Chinese experience have stimulated new research focused

on the specific beneficial effects of Chinese herbal medicine.^{379,391,394,395} Some herbs commonly used in Chinese medicine have been studied and chemical constituents that could represent the therapeutic actions of the herbs have been identified.^{372,390} However, numerous mechanisms are likely involved in the various actions of a single herbal medicine. Elucidation of these mechanisms will provide the scientific basis for establishing the efficacy and safety not only of Chinese herbal medicine, but all forms of medicinal herbs.³⁶⁸

In China, herbal medicines in the ancient tradition continue to be widely used.³⁷³ These medicines commonly contain ten or more herbs, thereby making it difficult to determine the pharmacological effects of individual drugs incorporated in prescriptions. In modern Western medicine, the use of a single chemical component is preferred in order to avoid drug interactions. In Chinese medical philosophy, therapeutic value and efficiency are increased by combining various herbs and ingredients in one prescription to treat a single disease.³⁶⁸ A compound prescription often consists of four different functional groups and each group usually comprises more than one herb. The “principal” provides the principal curative effect; the “adjuvant” helps strengthen the principal effect; the “auxiliary” relieves secondary symptoms or decreases the toxicity of the principal and the “conductant” directs the action of the principal to the target organ or site.³⁶⁹ There are several logical explanations for the philosophy of mixing several crude extracts to achieve greater benefits. First, crude drugs given in combination may act synergistically. Second, the combination may have unknown interactions that might diminish possible adverse side effects of one or more of the components. Third, the combination may prevent the gradual decline in effectiveness observed when single drugs are given over long periods of time.³⁶⁸

Chinese herbal medicine generally uses either the whole plant or crude extracts as medicines, which tend to include a wide range of chemical constituents. Neither the whole plant nor crude extracts deliver highly concentrated medicines.³⁶³ By contrast, conventional Western prescription drugs usually contain a single-molecule active ingredient to treat a single ailment. This practice is more likely to cause side effects than the gentler and less concentrated phytochemicals in traditional herbal medicines.^{362,363}

In recent scientific investigations conducted in China, active ingredients have been isolated from herbal preparations. Many studies have focused on the effects of active ingredients both *in vivo* and *in vitro*, and on providing pharmacological data compatible with the modern scientific view.³⁷³ However, it has been suggested that the quality of trials needs substantial improvement in order to promote evidence-based decision-making,³⁷⁷ and frequently it has not been determined whether actions of isolated compounds shown *in vitro* or in animal studies would be relevant to the doses of herbal medication used in clinical practice.³⁷³ More systematic analysis and testing of Chinese herbs are needed for the development of a standard set of therapeutic agents that may be administered with reliable efficacy and good quality control.^{366,378}

In order for Chinese herbal medicine to be accepted as reliable alternative medicine, the safety of medicinal herbs and their efficacy for the treatment of specific diseases must be demonstrated.^{368,385,397,400} A first step is establishing reliable sources

of ingredients. In addition, the problems of adulteration, contamination, and toxicity must be overcome before Chinese herbal medicine can be accepted as a major medical system in the West. Chinese herbal medications have been reported to be accidentally, or sometimes deliberately, contaminated with heavy metals and/or conventional drugs.^{383,392,393} Eleven cases of liver damage were reported following the use of Chinese herbal medicines for skin conditions.³⁶⁵ One of the herbs used in a weight-reducing pill (*Stephania tetrandra*) was inadvertently replaced in a manufacturing error by *Aristolochia fangchi*, which is nephrotoxic and carcinogenic.³⁷⁰ In another herbal prescription, *Stephania tetrandra* was incorrectly substituted with *Aristolochia westlandi*, which contains nephrotoxins and Aristolochia acids. Its use caused more than 100 cases of kidney nephropathy.³⁷⁴ Many herbs used for common purposes contain potentially toxic ingredients and overdoses can also cause problems. An herb commonly used for its anti-inflammatory properties, *Aconitine carmichaeli*, contains aconitine, which causes neurological and cardiac toxicity.³⁷⁵ The root of licorice (*Glycyrrhiza uralensis*), used in many preparations, is considered safe; however, it contains glycyrrhizic and glycyrrhetic acids, and large doses can cause hypokalemia and sodium and water retention.³⁷⁵ *Ginkgo biloba* extract can inhibit platelet aggregation and sometimes cause spontaneous hemorrhaging.³⁷⁵

As herbal remedies grow in popularity, it becomes increasingly important to understand potential interactions between herbs and prescription drugs. Many herbs have powerful effects which may be increased or counteracted by pharmaceutical drugs and vice versa.³⁹⁹ This is equally important to Chinese herbs. However, a major handicap is the lack of sufficient knowledge of chemical components involved in Chinese herbal preparations.

Negative media reports on medicinal use of Chinese herbs have attracted a great deal of attention, especially because the use of these herbs is relatively new to the West. Adulteration, contamination, and toxicity have been found from time to time in medicinal herbs from many parts of the world. However, herbal medicine is still considered comparatively safe. In early 2000, Dr. James Duke of the U.S. Department of Agriculture noted that one quarter to one half of all Americans take herbs or herbal supplements but only about 40 Americans died from them in the prior year, whereas prescription drugs kill 80,000 to 120,000 people annually.³⁶² Out of 1,701 patients admitted to a Hong Kong hospital, only three were admitted because of adverse reactions to Chinese herbal drugs.³⁷⁶ Four percent of 2,695 patients admitted to a Taiwanese hospital had drug-related problems. Herbal medicines ranked third among the categories of medicines responsible for causing adverse effects.³⁷⁶

Strong regulations and precise quality control are the best measures for monitoring herbs on the market, especially imported Chinese herbs, and can detect substitution, heavy metal contaminations, and illegally added prescription drugs. In addition, the systematic analysis and testing of Chinese herbs may lead to a greater understanding of the biologically active chemical components that are responsible for the claimed therapeutic values. The level of active ingredients has been used as a standard or marker for the quality of raw plant materials and value-added products in the West.⁹⁵ This is an important approach and should be applied to Chinese herbs, since each plant species or variety produces different chemical compounds, with varying medicinal values.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Abrus precatorius</i> L.	Siang Si Zi (Prayer beads)	(seed) l-Abrine, precatorine, hypaphorine, cycloartenol, squalene, trigonelline, 5- β -cholanic acid. ^{33,450}	Antiemetic, expectorant, parasiticide.
<i>Abutilon theophrasti</i> Malv. <i>A. avicennae</i> Gaertn. Fruct. Sem.	Gou Ma (Flowering maple)	(aerial part) Rutin, pentose, pentosan, methylpentosan, uronic acid, methypentose, oil, protein. ⁴⁸	Treat dysentery, fevers, a diuretic.
<i>Acacia catechu</i> Willd.	Er Cha (Catechu, Jerusalem thorn)	(peeled branch) d-Catechin, catechutanic acid, epicatechin, gambir-fluorescein, gambirine, mitraphylline, tannin, roxburghine D. ^{33,450}	Promote salivation, resolve phlegm, stop bleeding, treat pyogenic infections.
<i>Acacia confusa</i> Merrill	Xiang Si Shu (Black cutch)	(bark) Amino acids. ⁵⁵	Externally to stop bleeding, treat snake bite.
<i>Acacia nemu</i> Willd. (Syn. <i>Albizia julibrissin</i>)	He Huan Pi (Mimosa)	(bark) Tannins, saponins. ⁴⁹	Tonic, stimulant, anthelmintic.
<i>Acalypha australis</i> L.	Tie Xian Cai (Copper leaf)	(aerial part) Acalyphine, tannic acid, gallic acid. ³³	Antibacterial, antiasthmatic, antipyretic, detoxicant, antidyseric, hemostatic.
<i>Acalypha farnesiana</i> Willd. <i>A. indica</i> L.	Jin He Huan Indian Ren Xian (Wild copper leaf)	(whole plant) Acalyphine. ⁵⁵	Diuretic, treat diarrhea.

<i>Acanthopanax gracilistylus</i> Harms. <i>A. giralddii</i> (Harms.) Nakai <i>A. spinosum</i> Miq.	Wu Jia Pi (Thorny catalpa)	(stem, bark) 4-Methoxysalicylaldehyde, vitamin A, beta-sitosterol, arachic, linoleic acid, essential oil, palmitic acid, diterpene, tannic acid, calcium oxalate, polysaccharides, 6-isoinosine, syringaresinol, diglucoside, 1-hexacosene, d-sesamine, triterpene glycosides. ^{49,50,433,444,481,482,485}	For anodyne, arthritis, backache, beriberi, carminative, antitumor, antipyretic effect, suppressive effect on human lymphocytes <i>in vitro</i> , anti-inflammatory
<i>Acanthopanax senticosus</i> (Rupr. et Maxim.) Harms. <i>A. senticosus</i> (Rupr. et Maxim.) var. <i>subinermis</i> (Regel) Kitag.	Ci Wu Jia Shao Ci Wu Jia (Siberian ginseng)	See <i>Eleutherococcus senticosus</i>	
<i>Acanthopanax sessiliflorus</i> (Rupr. et Maxim.) Seem.	Duan Geng Wu Jia	(root, bark) 1-Sesamin, savinin, acanthosides, syringaresinol, daucosterin, daucosterol. ⁴⁸	Diuretic, anti-inflammatory.
<i>Acanthopanax trifoliatum</i> (L.) Merr.	San Ye Wu Jia	(leaf) Taraxerol. ⁵⁴	Treat cold, cough, neuralgia, rheumatism.
<i>Achillea alpina</i> L. <i>A. millefolium</i> L.	Shi Cao (Siberian yarrow)	(aerial part) Alkaloids, essential oils, achillin, flavonoides, betonicine, achilleine, d-camphor, oxalic acids, ether oils, hydroxycinnamic acids, hydrocyanic acids, hydroxybenzoic acids, anthocyanidines, anthraquinones, phytosterines, carotene, coumarins, monoterpene, sesquiterpene glucosides, desacetylmatricarin. ^{33,222,450}	Antibacterial, treat menopause, abdominal pain, acute intestinal disorder, wound infection, snakebite.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Achyranthes asperia</i> L. var. <i>indica</i> L.	Tu Niu Teng (Prickly chaff flower)	(seed) Beta-carotene, thiamine, riboflavin, niacin, saponins, ascorbic acid, protein. ⁵⁰	Antispasmodic, diuretic, induce labor, antifertility, anti-inflammatory.
<i>Achyranthes bidentata</i> L.	Huai Niu Teng (Long leaf chaff flower)	(root) Inokosterone, ecdysterone, polysaccharides. ³³	Anticancer.
<i>Achyranthes japonica</i> (Miq.) Nakai	Japan Niu Teng (Japanese chaff flower)	(leaf, root) Calcium oxalate, saponin, oleaolic acid, ecdysterone, inokosterone. ⁵⁰	Antirhythmic, anodyne, treat amenorrhea, carbuncles, fever, dystocia, and urinary ailments.
<i>Aconitum balfourii</i> Stapf. <i>A. carmichaelii</i> Debeaux <i>A. chasmanthum</i> Stapf. <i>A. deinorrhizum</i> Stapf. <i>A. fischeri</i> Reichb. <i>A. jaluense</i> Kom. F. glabrescens (Nakai) Kitag. <i>A. koreanum</i> R. Raymund <i>A. napellus</i> L. <i>A. praeparata</i> Stapf. <i>A. volubile</i> Pall. ex Koelle var. <i>oligotrichum</i> (DC) Kitag.	Fu Zi, Wu Tao (Wolfsbane)	(root) Aconitine, hypaconitine, pseudoaconitine, mesaconitine, talatisamine. ^{33,144,262,450} This herb is highly toxic.	Cardiotonic, antinociceptive, anti-inflammatory, analgesic effects.
<i>Aconitum barbatum</i> Persoon <i>A. austroyunnanense</i> W. T. Wang.	Xue Shang Yi Zhi Hao	(root) Bullatines, aconitine, talatisamine, vilmorrianines, isotalatizidine. ^{33,270}	Analgesic effect, relieve pain, activate blood circulation, reduce swelling, curative effect on rheumatism, apoplexy, palsy, fracture.

<i>Aconitum laciniatum</i> Stapf. <i>A. kusnezoffii</i> Reichenbach <i>A. chinense</i> Paxt. <i>A. vilmorinianum</i> Kom. <i>A. pariculigerum</i> Nakai	Cao Wu	(root) Hypaconitine, aconitine, aconine, mesaconitine, talatisamine. This herb is highly toxic. ³³	Analgesic, sedative, vagal- stimulation, local anesthetic effect.
<i>Acorus calamus</i> L. var. <i>angustatus</i> Besser <i>A. gramineus</i> Ait. <i>A. tatarinowii</i> L.	Chang Pu (Sweet flag)	(leaf, root) Acoric acid, beta-asarone, yellow bitter aromatic volatile oil, alpha- pinene, d-camphene, calamene, calamenol, calamenone. ^{50,357,450}	Anticonvulsant, analgesic, aphrodisiac, carminative, contraceptive, dessicant, diaphoretic.
<i>Acronychia pedunculata</i> (L.) Miquel <i>A. laurifolia</i> Blume	Jiang Zhen Xiang Sha Tong Mu	(stem) Actronycine, bauerenol, nitroacronycine. ⁵⁰	Treat bleeding and pain, heart disease.
<i>Actaea asiatica</i> Hara.	Lai Ye Sheng Ma (Asian baneberry)	(aerial part) <i>trans</i> -Aconitic acid. This herb is toxic. ⁵¹	A prophylactic against pestilence, malaria, evil miasma.
<i>Actinidia arguta</i> (Sieb. et Zucc.) Planch ex Miq. <i>A. chinensis</i> Planch. <i>A. japonica</i> Nakai <i>A. kolomikta</i> (Maxim. ex Rupr.) Maxim. <i>A. polygama</i> (Sieb. et Zucc.) Planch. ex Maxim.	Mi Hou Tao (Kiwi)	(whole plant) Matatabic acid, iridomyrmecin, actinidine, allomatatabiol, iridomyrmecin, neo-nepetalactone, dihydronepetalactol, matatabiether, isoneomatatabiol, matatabistic acid, neomatatabiol, vitamin C, vitamin B. ^{48,50,52}	For esophageal and liver cancers, rheumatoid arthritis, arthralgia, urinary stones, fever.
<i>Adamia chinensis</i> Gard. et Champ. <i>A. cyanea</i> Wall. <i>A. versicolof</i> Fortune (Syn. <i>Dichroa febrifuga</i>)	Chang Shan (Chinese quinine, fever flower)	(root) Alpha-dichroine, beta-dichroine, gamma-dichroine. ⁴⁹ This herb is toxic.	Antimalarial, antipyretic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Adenophora coronopifolia</i> Fisch. <i>A. paniculata</i> Nannf. <i>A. pereskiaefolia</i> (Fisch.) G. Don <i>A. polymorpha</i> Ledeb. <i>A. remotiflora</i> (Sieb. et Zucc.) Miq. <i>A. stenanthina</i> (Ledeb.) Kitag. <i>A. tetraphylla</i> Mak.	Sha Seng (Bluebell)	(root) Saponins. ³³	Hemolyze blood cells, stimulate myocardial contraction, antibacterial.
<i>Adenophora triphylla</i> (Thunb.) DC <i>A. verticillata</i> Fisch.	Che Ye Sha Seng Lun Ye Sha Seng (Bellflower)	(root) Inulin, taraxerone, beta-sitosterol, daucosterol, beta-sitosteryl palmitate, lupenone. ⁵³	Antidotal, aphrodisiac, demulcent, expectorant, restorative, sialogogue, tonic.
<i>Adiantum boreale</i> Presl. <i>A. capillus-junonis</i> Rupr. <i>A. pedatum</i> L. <i>A. flabellulatum</i> L.	Tie Xian Jiu (Black maidenhair) Guo Tan Loan (Maidenhair fern)	(root) Adipedatol, adiantone, hopadiene, isoadiantone, isofernene, fernene, gamma-fernene, filicene, filicenol, fernadiene. ⁴⁸	Treat cold and gripe.
<i>Adina rubella</i> Hance. <i>A. ratemosa</i> (Sieb. et Zucc.) Miquel	Shui Yang Mei Gen Shui Tuan Hua (Reddish modelwood)	(root, flower) Neucleoside, beta-sitosterol, noreugenin, quinoric acid, saponin, betulinic acid, morolic acid, cincholic acid, stigmasterol. ⁵⁸	Astringent, carminative, for dysentery, enteritis, hemorrhage, anticancer.
<i>Adonis brevistyla</i> Franch. <i>A. chrysocyathus</i> Hook F. & T. Thoms. <i>A. vernalis</i> L.	Fu Shou Cao (Amur adonis)	(aerial part) Cymarol, adonilide, pergularin, corchoroside A, convallatoxin, isoramanone. ³³ This herb is toxic.	Treat heart disease and depression, diuretic.

<i>Aesculus chinensis</i> L. <i>A. indica</i> Colebr. <i>A. hippocastanum</i> L.	Sha Lou Zi (Horse chestnut)	(ripe fruit) Protoescigenine, escigenin, aescine, flavonoid glycosides, aesculine, albumin, fatty oils, amylose, oligosaccharides. ^{33,450}	Promote circulation, relieve epigastrium pain, promote digestion.
<i>Agastache rugosa</i> (Fisch. & Mey.) O. Kuntze <i>A. rugosa</i> (Fisch. & Mey.) O. Kuntze f. <i>hypoleuca</i> (Maxim.) Hara	Huo Xiang (Chinese giant hyssop)	(leaf) Essential oils, methylchavicol, anethole, anisaldehyde, d-limonene, hexenol, calamene, caryophyllene, p-methoxycinnamaldehyde, d-pinene, beta-pinene, octanol, cymene, linalool, elemene, farnesene. ^{48,306}	Chest congestion, diarrhea, headache, nausea, antipyretic, carminative, febrifuge, stomachic.
<i>Ageratum conyzoides</i> L. <i>A. houstonianum</i> Mill.	Sheng Hong Yu (Bastard agrimony)	(leaf, root) Cyanogenic glucoside, coumarin, agerato-chromene, 7-methoxy-2,2- dimethylchromene, beta- caryophyllene. ⁵⁰	For digestive disorder, fever, rheumatism, gonorrhea, tetanus, syphilis.
<i>Agrimonia eupatoria</i> L. <i>A. pilosa</i> Ledeb. <i>A. pilosa</i> Ledeb. var. <i>japonica</i> (Miq.) Nakai <i>A. pilosa</i> Ledeb. var. <i>simplex</i> T. Shimizu <i>A. pilosa</i> Ledeb. var. <i>viscidula</i> (Bunge) Kom. <i>A. viscidula</i> Bunge.	Loan Mao Cao, Xian He Cao (Agrimony)	(whole plant) Agrimophol, agrimols, agrimonine, agrimonolide, cosmosiin, vitamin C, luteolin-7- β -D-glucoside, apigenin-7- β -D-glucoside, vitamin K, tannins, catechin derivatives. ^{33,48,49,263}	Astringent hemostatic in enterorrhagia, hematuria, metrorrhagia, gastrorrhagia, pulmonary, tuberculosis. A cardiotonic, antihemorrhagic, anthelmintic, anti- inflammatory, antimicrobial.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Ailanthus altissima</i> (Mill.) Swingle	Chun Pi (Stinking cedar)	(root, stem, bark) Amarolide, ailanthone, afzelin, syringic acid, vanillic acid, beta-sitosterol, azelaic acid, d-mannitol, amarolide, oleoresin, mucilage. ^{33,48}	Antidiarrheal, treat dysentery, duodenol ulcers. Astringent, anthelmintic.
<i>Ajuga bracteosa</i> Wallich <i>A. decumbens</i> Thunb. <i>A. pygmaea</i> A. Gray	Jin Gu Cao Jin Chuang Xian Cao (Bugleweed)	(whole plant) Flavone glucoside, luteolin, tannin, ecdysones cyasterone, ecdysterone, ajugalactone, ajugasterone, beta-sitosterol, ajugasterone, cerotic acid, y-sitosterol, palmitic acid. ^{33,50,450}	Antitussive, antipyretic, antiphlogistic, antibacterial. Treat bladder ailments, diarrhea, bronchitis, a tonic, stimulant, diuretic.
<i>Akebia quinata</i> (Hoytt.) Decne.	Moo Tune (Chocolate vine)	See <i>Clematis armandii</i>	
<i>Alangium chinense</i> (Lour.) Harms.	Ba Jiao Feng	(root) dl-Anabesine. ³³	Cause myocardial stimulation, increase contractility, may cause fibrillation and increase blood pressure.
<i>Alangium lamarckii</i> Lour.		dl-Anabesine, cephaeline, emetine, psychotrine, tubulosine, ankorine isotubulosine, demethyl-tubulosine, demethylpsychotrin, alangicine, deoxytubulosine, alangimarckine, alamarchine, demethylcephaeline. ³³	
<i>Albizia julibrissin</i> Duraz. <i>A. lebbeck</i> (L.) Benth	Hu Hua Pi (Mimosa tree)	See <i>Acacia nemu</i>	

<i>Aletris formosuna</i> (Hayata) Sasaki <i>A. spicata</i> Franch	Fei Jin Cao (Chinese stargrass)	(root) Stigmasterol, beta-sitosterol, diosgenin. ⁵⁴	Antitussive, vermifugal, for ascariasis, marasmus, cough.
<i>Aleurites fordii</i> Hemsl.	You Tong (Candlenut)	(fruit, aerial part, seed) Saponin, alpha-elaeo stearic, oleic acid, palmitic acid, stearic acid, tannins, phytosterols, n-hentriacontane, alpha-amyrin, beta-amyrin, stigmasterol, beta- sitosterol, campesterol. ^{50,219}	Analgesic activity. Treat anemia, atrophy, edema, vermicide, oil (toxic internally) for parasitic skin diseases.
<i>Aleurites moulceanu</i> (L.) Willd.	Shi Li (China wood oil)	(bark, seed) Protein, carotene, thiamine. ⁵⁰ This herb is toxic.	As poultice for fever, headache, swollen joints, and ulcer.
<i>Alisma cordifolia</i> Thunb. <i>A. orientale</i> (Sam.) Juzep. <i>A. plantago</i> L. <i>A. plantago-aquatica</i> L.	Ze Xie (Water plantain)	(stem, root) Alisol A, alisol B, polysaccharide, alisol monoacetate, sesquiterpenes, triterpenes, glucan, epialisol A (essential oil). ^{33,451,452,463,464}	Lower hypercholesteremia, treat hypertriglyceride, immunologic activities, anti- complementary, antiallergic.
<i>Allamanda cathartica</i> L.	Yuan Xi Huang San	(whole plant) Allamandin. ³³	Treat P-388 leukemia.
<i>Allium chinense</i> Max. <i>A. odorum</i> L. <i>A. sativum</i> L. <i>A. tuberosum</i> Roxb. <i>A. uliginosum</i> G. Don	Da Suan (Garlic)	(bulb) Allicin, allistatin, glucominol, neo-allicin, steroidal saponins, polysaccharides, furostanol saponins, proto-isourubosides, diallyl sulfide. ^{33,49,438,490,510}	Antibacterial, antimutagenic, anticarcinogenesis, carmin- ative, antiarrhythmic, lower plasma cholesterol and low- density lipoproteins, prevent thrombosis, hypotensive and vessel protective effect.
<i>Allium fistulosum</i> L. <i>A. macrostemon</i> Bunge. <i>A. tartaricum</i> Ait.	Jiu Bai (Scallion) Cong (Green onion) Jiu Cai (Scallion)	See <i>Allium chinense</i>	

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Allium victorialis</i> L. var. <i>platyphyllum</i> (Hult.) Makino	Ge Cong (Serpent garlic)	(whole plant) Methyl allyl disulfide, diallyl disulfide, methyl allyl trisulfide, l-propenyl sulfonic acid, methyl-l-propenyl disulfide, allyl-l-propenyl disulfide. ^{48,50}	A diuretic, vermifuge, treat cold.
<i>Alnus japonica</i> (Thunb.) Steudel <i>A. japonica</i> (Thunb.) Steudel var. <i>koreana</i> Callier	Ce Yan (Japanese alder)	(leaf, bark) Alpha-amyrin, betulinic acid, glutin-5-en-3-ol, heptacosane, lupenone, taraxerol. ^{48,50}	Antitumor.
<i>Aloe barbadensis</i> Miller var. <i>chinensis</i> Berger <i>A. vera</i> L.	Lu Wen (Aloe)	(aerial part) Aloins, barbaloin, aloe-emodin, polysaccharides. ^{49,50,403,450,510}	Laxative, stomachic, emmenagogue.
<i>Alpinia japonica</i> Miq.	Yue Tao (Japanese ginger lily)	(seed) Essential oils, cineole, alpinone, izalpinin, rhamnocitrin, kumatakinin. ⁵⁶	Carminative.
<i>Alpinia katsumadai</i> Hayata <i>A. globosum</i> Horan. <i>A. kumatake</i> Mak.	Dou Kou Pi Jiang (Greater galangal)	(whole plant) Kaempferin, galangin, galangol, cineole, citral, carotene, thiamine, riboflavin. ⁵⁰	Carminative, stomachic, treat malarial disorders, fluxes, and menstruation.
<i>Alpinia officinarum</i> Hance	Gao Liang Jiang (Lesser galangal)	(rhizome) Galangol, essential oils, cineol, eugenol, pinene, cadinene, methyl cinnamate, sesquiterpene, dioxyflavonol. ⁴⁹	As stomachic in chronic enteritis, dyspepsia and gastralgia, carminative, antiperiodic, sialogogue.

<i>Alpinia oxyphylla</i> Miq.	Yi Zhi (Chinese lily ginger)	(fruit) Cincole, zingiberene, zingiberol. ⁵⁸	Diuretic, tonic, treat vomiting, and digestive discomfort.
<i>Alpinia speciosa</i> K. Schum.	Shan Jiang (Ginger)	(seed) Zingiberene, zingiberol. ⁵⁴	Stomachic.
<i>Alstonia scholaris</i> (L.) R. Br.	Deng Tai Ye (Dita bark)	(leaf) Picrinine, picralinal, echitamine, echitamidine. ³³	An expectorant, antiphlogistic.
<i>Alternanthera philoxeroides</i> (Mart.) Griseb. <i>A. sessilis</i> (L.) R. Brown	Kong Xin Lian Zi Cao Man Ti Xian	(aerial part) Saponin, coumarin, tannins, falvins. ³³	Treat viral infections, measles, hemorrhagic fever, toxic and icteric hepatitis.
<i>Althaea rosea</i> (L.) Cav.	Shu Kui (Hollyhock)	(shoot, root, seed) Althaeine, dioxybenzoic acid. ⁵⁰	As stomachic, regulative, constructive in fevers, dysentery, diuretic.
<i>Amaranthus caudatus</i> L.	Wei Sui Xian (Amaranth)	(leaf) Betaine. ⁴⁸	A tonic.
<i>Amaranthus lividus</i> L. <i>A. blitum</i> Kom. <i>A. viridis</i> L.	Lu Xian (Strawberry blite)	(leaf) Vitamins, protein, thiamine, riboflavin, ascorbic acid. ⁵⁰	Treat dysentery and inflammation, vermifuge.
<i>Amaranthus paniculatus</i> L.	Fan Sui Xian	(leaf) Betaine. ⁴⁸	Stop bleeding, relieve pain, externally for wounds, broken bones.
<i>Amaranthus tricolor</i> L.	San Se Xian (Jacob's coat, Chinese amaranth)	(leaf) Beta-carotene, thiamine, riboflavin, niacin, ascorbic acid. ⁵⁰	Prevent cancer.
<i>Amomum cardamomum</i> L. <i>A. globosum</i> Lour. <i>A. tsao-ko</i> Roxb. <i>A. villosum</i> L. <i>A. xanthioides</i> Wall.	Bai Dou Ku Cao Guo Shan Ren (Siam cardamon, Chinese cardamon)	(seed) d-Borneol, borneol acetate, d-camphor, linalool, nerolidol, terpene. ⁵⁰	Treat pyrosis, vomiting, dyspepsia, pulmonary diseases. Antitoxic, antiemetic, carminative, stomachic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Amorphophallus rivieri</i> Durieu	Mo Yue	(whole plant) Leviduline, levidulinase, mannose. ⁵⁰ This herb is toxic.	Treat aching bones, eye inflammation, cancer, ulcers, snakebite.
<i>Ampelopsis aconitifolia</i> Bunge.	Cao Bai Ching	(root bark, stem, leaf) Flavonoids, glucosides, amino acids. ⁴⁸	Externally as an antiseptic for swollen abscesses.
<i>Ampelopsis brevipedunculata</i> (Maxim.) Trautv.	Ye Pu Tao Teng (Snake grape)		Antitoxic, relieve pain and bleeding, treat arthritis.
<i>Ampelopsis japonica</i> (Thunb.) Mak. <i>A. bodinieri</i> (Levl. & Vant.) Rehd. <i>A. contonensis</i> (Hook & Arn.) Planch. <i>A. humulifolia</i> Bunge.	Bai Lian (Peppervine)	(root bark, stem, leaf) Flavonoids, glucosides, amino acids. ^{48,60}	Anodyne, astringent anticonvulsive, detoxicant, treat tubercular cervical nodes, hemorrhoidal bleeding. Treat pain of rheumatism.
<i>Anagallis arvensis</i> L.	Hi Lu	(root) Anagalline, anagalligenone, arrenin, cucurbitacins. ⁵⁵	Treat snakebite, dog bite, antitoxic.
<i>Ananas comosus</i> (L.) Merrill	Feng Li	(leaf) Ergosterol peroxide, ananasic acid, 5-stigmautena-3 β ,7d-diol, 3,4-dihydroxycinnamic acid, 4-hydroxycinnamic acid, bromelin, vitamins. ⁵⁷	Antioxidant activity, for digestion, lower blood pressure, anticancer.

<i>Andrographis paniculata</i> (Burm. f.) Nees	Chuan Xin Lian (Creat)	(aerial part) Deoxyandrographolide, andrographolide, neoandrographolide, dehydroandrographolide. ³³	Antibacterial, antipyretic, anti-inflammatory.
<i>Anemarrhena asphodeloides</i> Bunge.	Zhi Mu	(rhizome) Steroidal saponins, mangiferin, isomangiferin, sarsasapogenin, markogenin, neogitogenin. ^{10,11,33}	Antipyretic, anti-inflammatory, sedative, antibacterial.
<i>Anemone cernua</i> Thunb. <i>A. pulsatilla</i> <i>A. pulsatilla</i> var. <i>chinensis</i> Bunge.	Bai Tu Own (Pulsatila)	(root) Saponins, protoanemonin. ⁴⁹	A cardiac and nervous system sedative, antispasmodic, anodyne in asthma and pulmonary infections, antidiarrheic.
<i>Anemone raddeana</i> Regel <i>A. rivularis</i> Buch-Hamilton ex DC <i>A. rivularis</i> Buch-Hamilton ex DC var. <i>flore-minore</i> Maxim. <i>A. vitifolia</i> (Buch. Ham.) Nakai	Yin Lian Hua, Liang Tao Jian Cao Yu Mei Ye Mian Hua (Anemone)	(rhizome) Raddeanin A, hederasaponin B, raddanoside, ranuneulin, oleanolic acid. ^{33,48}	Antitumor, anti-inflammatory, antirheumatic arthritis.
<i>Anethum graveoleus</i> L.	Shi Luo (Dill)	(fruit, young shoot) Essential oils, d-carvone, dillapiole, limonene, bergapten, umbelliprenin, camphene, dihydrocarvone, dillapiole, dipentene, isomyristicin. ^{48,50}	Carminative, stimulant.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Angelica amurensis</i> Schischk. <i>A. anomala</i> Lalle. <i>A. dahurica</i> (Fisch.) Benth. et Hook.	Bai Zhi (Angelica)	(root) Byak-angelicin, byak-angelicol, oxypeucedanin, imperatorin, phellopterin, xanthotoxine, marmesin, scopoletin, marmesin, anomalin, angenomalin, bergapten, imperatoin, pabulenol, isoimperatorin, oxypeucedanin, neobyakangelicol. ^{33,486}	Antipyretic, treat toothache, headache, antitumor. Externally for mastitis and wound infection.
<i>Angelica decursiva</i> (Miq.) Franch. et Savat.	Qian Hu	(root) Nodakenin, nodakenetin, decursin, decursidin, umbelliferone, andelin, 3'-angeloyloxy-4'-isovaleroyloxy-3', 4'-dihydroxanthyletin, estragol, umbelliprenin, imperatorin, sioimperatorin, spongesterol, hydroxypeucedanin, decuroside, estragol, spongesterol. ⁴⁸	Anodyne, carminative, diuretic, stimulant, suppurative. Treat abscesses, boils, catarrh, cold, coryza, dysmenorrhea, epistaxis, fever.
<i>Angelica grosserrata</i> Maxim.	Fu Shen	(root) Angelic, linoleic, oleic, palmitic, stearic acids. ⁵⁰	Antispasmodic, diaphoretic, diuretic. Treat apoplexy, swellings, catarrh, dropsy, headache, leprosy, puerperium.
<i>Angelica polymorpha</i> Max. <i>A. sinensis</i> (Oliv.) Diels	Dan Gui	(root) Vitamin B ₁₂ , vitamin E, ferulic acid, succinic acid, nicotinic acid, uracil, adenine, butylidenephthalide, ligustilide, folic acid, biotin, polysaccharide. ³³	Treat irregular menstruation, anemia, thrombophlebitis, neuralgia, arthritis, chronic nephritis, constrictive aortitis, skin disease such as eczematous dermatitis.

<i>Angelica pubescens</i> Maxim.	Du Huo	(root) Coumarins, bergapten, glabralactone, osthol, angelol, angelic acid, angelicotoxin, byak-angelicin, byak-angelicol, tiglic acid, umbelliferone. ⁵⁰	For abscesses, arthritis, cold, epistaxis, headache, toothache, hematochezia, hematurai, lumbago, rheumatism.
<i>Anredera cordifolia</i> (Tenore) Van Steen	Yang Lu Kui	(whole plant) 3-hydroxy-30-horoleana-12, 18-dien-29-oate, larreagenin, ethyl ester, ursolic acid. ⁵⁷	Treat boils.
<i>Anthriscus aemula</i> (Woron.) Schischk. <i>A. aemula</i> (Woron.) Schischk. f. <i>hirtifructa</i> (Ohwi) Kitag. <i>A. sylvestris</i> (L.) Hoffm.	Wo Seng (Wild caraway)	(root) Anthriscin, deoxypodophyllotoxin, isoanthricin, luteolin, oxalic acids, hydroxycinnamic acids, ether oils, hydroxybenzoic acids, coumarins, anthocyanidines, anthraquinones, phytosterines, carotenes, monoterpene, sesquiterpene glucosides, hydrocyanic acids. ^{50,222}	Antitumor, glandular tumors, corns, warts.
<i>Antiaris toxicaris</i> (Pers.) Lesch.	Jian Xui Fuan Hou	(seed) Alpha-antiarin, alpha-antioside, convallatoxin, bogoroside, strophalloside, peripalloside. ³⁵	A cardiotonic, emetic, lactogenic, antipyretic. Treat dysentery.
<i>Apium graveolens</i> L.	Qin Cai (Celery)	(whole plant) Apiin, graveobioside A, graveobioside B. ³³	Treat hypertension, hypercholesterolemia.
<i>Apocynum venetum</i> L.	Luo Bu Ma	(leaf, root) Cymarín, strophantidin, k-strophanthin- β , isoquercitrin, quercetin. ³³	Increase myocardial contractility, lower blood pressure, increase bronchial secretion, diuretic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Aquilaria agallocha</i> Roxb. <i>A. sinensis</i> (Lour.) Gilg.	Chen Xiang (Aloe wood)	(stem wood) Agarospirol, alpha-agarofuran, agarol, beta-agarofuran, benzylacetone, hydrocinnamic acid, hydroagarofuran. ³³	Antiemetic, promote circulation, relieve pain.
<i>Aquilegia buergeriana</i> Sieb. et Zucc. f. <i>pallidiflora</i> (Nakai) Kitab. <i>A. buergeriana</i> Sieb. et Zucc. var. <i>oxysepala</i> (Trautv. et Mey.) Kitam. <i>A. parviflora</i> Ledeb.	Xue Jian Chou	(whole plant) Benzylacetone, terpene alcohol, p-methoxybenzylacetone. ^{48,60}	Treat irregular menstruation, ovarian bleeding, shortness of breath, nausea, pain and gas, chills.
<i>Arachis hypogaea</i> L.	Luo Hua (Peanut, groundnut)	(seed) Amino acids, protein, arachine, globulin, biotin, glycyrrhizin, glucosides, thiamine, riboflavin, niacin, carbohydrate. ^{48,50}	A cemucent, nutritive, pectoral, peptic. As an emollient, applied externally for rheumatism.
<i>Aralia chinensis</i> L. <i>A. cordata</i> Thunb. var. <i>continentalis</i> (Kitag.) Y. C. Chu <i>A. elata</i> (Miq.) Seem. <i>A. elata</i> (Miq.) Seem. F. subinermis Y. C. Chu	Jia Mu, Du Huo (Aralia)	(root) Diterpenoids such as (–) pimaradene, (–) kaurene derivatives, 1-pimara-8, 15-dien-19-oic acid, aralosides, araligenin, oleanolic acid, beta-taralin, alpha-taralin. ^{20,48,50}	Carminative, for arthralgia, gastroenteritis, headache, diuretic, antidiabetic, antiseptic.

<i>Araucaria cunninghamii</i> Aitonex Sweet	Na Yang Shan	(shoot) Methyl communate, methyl isocupressate, methyl acetyl-isocupressate, labdadien, diacetate, methyl amentoflavone. ⁵⁷	Treat skin diseases.
<i>Arctium lappa</i> L.	Niu Bang Chi (Burdock)	(fruit) Arctin, arctigenin, matai-resinol, sesquilignins, stereoisomer, inulin, mucilage, pectin, acetic, butyric, caffeic, chlorogenic, lauric, linoleic, oleic, palmitic, propionic, stearic, tiglic acids, lignans (lappaol). ^{1,9,450,487,488,489}	For dermatitis, tumors, diuretic and arexigenic properties, treat breast cancer, nephritis, antidote, diuretic, antibacterial, anti-inflammatory, relieve sore throat.
<i>Ardisia japonica</i> (Hornst.) Blume	Ai Di Cha or Pin Di Mu (Marlberry)	(whole plant) Bergenine glucoside, essential oil. ³³	Antitussive, antiphlegm, promotes blood circulation, hemostatic.
<i>Ardisia quinqueгона</i> (Blume) Nakai <i>A. sieboldii</i> Miq.	Zhi Jin Niu Shu Gi (Spiceberry)	(leaf, root) Bergenin. ⁵⁰	Treat cancer, hepatoma, a diuretic, antidote for poison, antiphlegmatic.
<i>Areca catechu</i> L. <i>A. hortonsis</i> Lour.	Bing Lang (Betel nut palm)	(nut) Arecholine, arecholidine, guvacoline, guvacine. ³³	Treat taeniasis.
<i>Arenaria juncea</i> Bieb. <i>A. juncea</i> Bieb. var. abbreviata Kitag <i>A. juncea</i> Bieb. var. glabra Regel <i>A. serpyllifolia</i> L.	Zao Zhui (Thyme-leaved sandwort)	(aerial part) Saponin. ⁵⁰	Antitussive, detoxicant, diuretic, febrifuge, treat cough, pulmonary tuberculosis, dysentery.
<i>Arethusa japonica</i> A. Gr.	Ze Lan	(aerial part) Essential oils, tannins. ⁴⁹	Diuretic, emmenagogue.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Arisaema amurense</i> Maxim. <i>A. amurense</i> Maxim. f. <i>purpureum</i> (Nakai) Kitag. <i>A. amurense</i> Maxim. f. <i>serratum</i> (Nakai) Kitag. <i>A. amurense</i> Maxim. f. <i>violaceum</i> (Engler) Kitag. <i>A. consanguineum</i> Mart. <i>A. erubescens</i> (Wall.) Schott. <i>A. heterophyllum</i> Blume <i>A. peninsulae</i> Nakai <i>A. peninsulae</i> Y. C. Chu et D. C. Wu <i>A. thunbergii</i> Blume.	Tian Nan Xing (Arum, serrated arum)	(whole plant) Alkaloids, saponin, benzoic acid. ^{33,49,144} This herb is highly toxic.	Treat tetanus, spasms, epilepsy, neuralgia. It is sedative, anticonvulsive, an expectorant.
<i>Aristolochia contorta</i> Bunge. <i>A. kaempferi</i> Willd. <i>A. longa</i> Thunb. <i>A. recurvilabra</i> Hance	Ma Dou Ling	(stem) Aristolochic acid A, aristolochic acid D, aristolosite, magnoflorine, oleanolic acid, beta-sitosterol, hederagenin. ⁴⁸ This herb is toxic.	Treat pulmonary disorders, antitussive, an expectorant in asthma and bronchitis.
<i>Aristolochia debilis</i> Sieb. et Zucc.	Qing Mu Xiang	(root) Aristolochic acid, debilic acid, magnoflorine, dibilone, cyclanoline, aristolone. ³³	Antihypertensive, lower heart rate and myocardial contractility, vasodilatation.
<i>Aristolochia manshuriensis</i> Kom.	Mu Tong	See <i>Clematis armandii</i>	

<i>Aristolochia shimadai</i> Hayata	Taiwan Ma Dou Ling	(stem) Aristolochic acid. ⁵⁴	Relieve pain, a diuretic, externally for snakebite.
<i>Armeniaca ansu</i> (Maxim.) Kostina <i>A. mandshurica</i> (Maxim.) Skvortzov <i>A. sibirica</i> (L.) Lam. <i>A. vulgaris</i> Lam. (Syn. <i>Prunus armeniaca</i>)	Xian (Apricot)	(seed) Amygdalin, hydrocyanic acid. ^{48,49}	Astringent, stomachic, antipyretic.
<i>Arnebia euchroma</i> Forssk.	Zi Cao	(root) Shikonin, acetylshikonin, beta-beta-dimethylacrytoylshikonin, beta-OH-isovalerylshikonin, alkamin-B, beta-di-Me-acrylate. ^{33,450}	Anti-inflammatory, antiseptic, antibacterial, toothache, eye diseases, a healer of cuts, burns, and wounds.
<i>Artemisia annua</i> L. <i>A. apiacea</i> Hance ex Walpers	Qing Guo (Stinking artemisia)	(aerial part) Dihydroartemisinin, artesunate, artemisinin, chloroquine, flavonoids, sesquiterpene. ^{33,269,476} This herb is mildly toxic.	A schizonticidal agent, antimalarial, treat infections of multidrug-resistant strains of <i>Plasmodium falciparum</i> , the cause of human malignant cerebral malaria.

<i>Artemisia finita</i> Kitag. <i>A. frigida</i> Willd.	Chang Guo Bai Guo	(flower bud) L-beta-santonin, finitin. ⁴⁸	Treat intestinal parasites.
<i>Artemisia gmelini</i> Weber ex Stechmann	Bai Lian Guo (Levant wormseed)	(whole plant) Essential oils, borneol, cineole, camphor, azulene, isovaleric acid, umbelliferone, scopoletin, genkwanin. ⁴⁸	Treat liver diseases, stop bleeding, arthritis, bronchitis.
<i>Artemisia lactiflora</i> Wallich	Tian Cai	(whole plant) Flavonoid glycoside, coumarin, lactiflorenol, spathulenol, s- guaiazulene, beta-guaienen, <i>trans</i> - β -farnesene, <i>trans</i> -caryophyllene, limonene, elemene, copaene, myrcene. ⁵⁷	Diuretic, regulate menstruation, treat headache, high blood pressure.
<i>Arthraxon hispidus</i> (Thunb.) Makino	Jin Cao	(root, whole plant) Aconitic acid, luteoline, luteolin-7- glucoside, anthraxin, luteolin- monoarabinoside. ⁴⁸	For chronic cough and other infections.
<i>Artocarpus altilis</i> (Park.) Fosberg.	Mian Bao Shu	(bark) Triterpenes, beta-amyrin acetate, lupeol acetate. ⁶⁰	Poultice for ulcers.
<i>Artocarpus heterophyllus</i> Lam.	Bo Lo Mi (Jackfruit)	(leaf, seed) Caoutchoue, resin, cerotic acid, protein, minerals. ⁵⁰	Tonic to treat discomfort from alcohol influence.
<i>Arundinaria graminifolia</i> (D. Don) Hochrentiner	Zhu Ye Lan	(leaf, root) Sitosterol, stigmasterol, campesterol. ^{50,57}	Antitussive, tonic, anthelmintic, stomachic, carminative.
<i>Arundo donax</i> L. <i>A. phragmites</i> L. (Syn. <i>Phragmites communis</i>)	Lu Zhu Lu Gen	(root) Glycosides, protein, asparagin. ⁴⁹	Stomachic, antiemetic, antipyretic, in acute arthritis, jaundice, pulmonary abscess, food poisoning.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Asarum canadense</i> L. <i>A. europaeum</i> L. <i>A. heterotropoides</i> Fr. Schmidt var. <i>mandshuricum</i> (Maxim.) Kitag. <i>A. heterotropoides</i> Fr. Schmidt var. <i>seoulense</i> (Nakai) Kitag. <i>A. sieboldii</i> Miq.	Xi Xin	(whole plant) Essential oils including ucarvone, saffrole, beta-pinene, asoryl-ketone, asariline, chalcone, flavonol glycoside, <i>trans</i> -aconitic acid, phenylpropane derivatives. ^{33,453,454,465,466}	Analgesic, sedative, antipyretic, anti-inflammatory.
<i>Asparagus cochineensis</i> (Lour.) Merr. <i>A. falcatus</i> Benth <i>A. insularis</i> Hance <i>A. lucidus</i> Lindl. <i>A. officinalis</i> L.	Tian Men Dong (Asparagus)	(root) Glycolic acid, asparagome, essential oils, methanethiol, (+)-nyasol, asparagine, steroidal, beta-sitosterol, sarsasapogenin, polysaccharide, diosgenin, oleanene derivatives ^{50,450,455,456,467,468}	Diuretic, laxative, treat cancer, antitumor, antioxidative activity, neuritis, rheumatism, for parasitic diseases.
<i>Aspidium falcatum</i> Sw. (Syn. <i>Dryopteris crassirhizoma</i>)	Guan Zhong (Wood fern)	(whole plant) Filicic acid, tannins, essential oil. ⁴⁹ This herb is slightly toxic.	Anthelmintic, hemostatic, antidote.
<i>Aster ageratoides</i> L.	Hong Guan Yao	(whole plant) Quercetin, kaempferol. ³³	Antitussive, antiasthmatic, stimulates adrenal cortex.
<i>Aster tataricus</i> L.	Zhi Wen (Purple aster)	(root) Saponins, shionon, quercetin, arabinose. ⁴⁹	Antitussive, expectorant.
<i>Astilbe longicarpa</i> (Hay.) Hayata <i>A. chinensis</i> (Maxim.) Franch. et Sav.	Luo Xing Fu	(whole plant) Astilbin, bergenin, quercetin, 2-hydroxyphenylacetic acid. ^{53.}	Antitoxic, against pestilence, malaria, evil miasma.

<i>Astragalus chinensis</i> L.	Sha Yuan Zi (Vetch)	(seed) Astragalin, canavanine, homoserine. ^{33,436}	Sedative, antibacterial, antiviral, anticarcinogenic effect.
<i>Astragalus complanatus</i> R. Fr. ex Bunge. <i>A. henryi</i> Oliv. <i>A. hoantchy</i> Franch. <i>A. melilotoides</i> Pallas <i>A. membranaceus</i> (Fisch.) Bunge. <i>A. mongholicus</i> Bunge. <i>A. reflexistipulus</i> Franch. <i>A. sinensis</i> L.	Huang Zhi (Yellow vetch, membranous milk vetch)	(root) Gamma-aminobutyric acid, queretin, astragalin, canavanine, coumarin, flavonoid derivatives, saponins, polysaccharide, cycloastrangenol, betaine, rhamnositin, isoflavones, astragalosides, formononetin, homoserine, isoliquiritigenin, cosin, kaempferol. ^{1,33,53,410,411,439,445,448,510,511}	Hypotensive, antirhinoviral, antitumor, antipyretic, anti- oxidant effect, diuretic, tonic, an immuno-moderating agent, treat myelosuppression caused by cancer chemotherapy, treat urological tumors.
<i>Atractylis chinensis</i> DC <i>A. lancea</i> Thunb. <i>A. lyrata</i> Sieb. et Zucc. <i>A. ovata</i> Thunb.	Zhang Shu	(root) Essential oils, atractylone, hinesol, atractylodine, atractylol, beta- eudesmol, diacetyl-atractylodiol. ³³ This herb is toxic.	Lower blood sugar, sedative.
<i>Atractylodes chinensis</i> (Bunge.) Koidz. <i>A. chinensis</i> (Bunge.) Koidz. f. simplicifolia (Loes.) Y. C. Chu <i>A. chinensis</i> (Bunge.) Koidz. var. liaotungensis (Kitag.) Y. C. Chu <i>A. japonica</i> Koidz. ex Kitam. <i>A. koreana</i> (Nakai) Kitam. <i>A. lancen</i> (Thunb.) DC <i>A. macrocephala</i> Koidz. <i>A. ovata</i> DC	Bai Zhu	(root) Atractylone, eudesmol, hinesol, bisesquiterpenoid, biatractylolide. ^{19,258}	Diuretic agent, abdominal and chest tightness, anemia, chills, bronchial cough, diarrhea, CNS suppressing activity.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Atractylodes lancea</i> Bunge.	Cang Zhu	(root) Essential oils, atractylon, atractylol. ⁴⁹	As aromatic tonic in chronic gastroenteritis.
<i>Aucklandia costus</i> Falc. <i>A. lappa</i> Decne (Syn. <i>Saussurea lappa</i>)	Mu Xiang	(root) Saussurine, costulactone, costol, costene, camphene, phellandrene. ⁴⁹	Treat asthma, stomachic.
<i>Avena fatua</i> L.	Ye Yen Me (Oats)	(whole plant) Aminoadipic acid, glucovanillin, trigonelline, leucine, isoleucin, threonine, asparaginic acid, oxylysin, beta-sitosterol, aconitic acid, avenasterol, secalose, erucic acid, xanthophylllepoxyd. ⁴⁸	Stop bleeding, a tonic.
<i>Azalea japonica</i> A. Gray <i>A. mollis</i> Blume <i>A. pontica</i> var. <i>sinensis</i> Lindl.	Yang Zhi Zu (Azalea)	See <i>Rhododendron sinensis</i>	
<i>Azolla imbricata</i> (Roxb.) Nakai	Man Jiang Hong	(whole plant) Luteolinidin 5-glucoside, aesculetin, caffeic acid. ⁵⁷	Treat cough, arthritis, eczema, swelling, diuretic.
<i>Baphicanthus cusia</i> (Nees.) Bremek.	Ban Lan or Da Qing Ye	(leaf, root) Indirubin, indigo, indo-brown, indo-yellow, isoindigo, lacerol, tryptanthrin. ⁵³	Antidotal, febrifugal, treat fever, epidemic mumps, erysipelas, rashes, sore throat.

<i>Bauhinia championi</i> Benth <i>B. variegata</i> L.	Jiu Hua Teng (Orchid tree)	(bark, sepal) Kaempferol-3-galactoside, daempferol-3-rutinoside, protein, flavonoids, carbohydrates, stigmasterol, beta-sitosterol, beta-p glucophyranoside. ^{50,450}	Astringent, tonic, treat scrofula, skin ailments, leprosy, ulcers, and diarrhea.
<i>Belamcanda chinensis</i> (L.) DC <i>B. pamtata</i> Moench.	She Gan (Blackberry lily, leopard lily)	(root) Tectoridin. ⁵⁰	Antipyretic, antifungus, analgesic, detoxicant, stomachic. Externally for boils, cancer, contusions, swellings.
<i>Benincase cerifera</i> Savi. <i>B. hispida</i> Cogn.	Don Gua (Gourd melon)	(fruit, seed) Palmitic acid, stearic acid, linoleic acid, thiamine, riboflavin, niacin, ascorbic acid. ⁵⁰	Diuretic, laxative, treat diabetes, dropsy, rhinitis.
<i>Berberis amurensis</i> Rupr. <i>B. poiretii</i> Schneid. <i>B. sibirica</i> Pall. <i>B. soulieana</i> C. K. Schneid.	Xiao Yeh (Chinese barberry)	(root) Berberine, berbamine, palamatine, jatrorrhizine, oxycanthine. ³³	Antibacterial, promotes leukocytosis, choleric.
<i>Betula mandshurica</i> (Regel) Nakai <i>B. platyphylla</i> Suk.	Bai Hua (White birch tree)	(bark, tree sap) Betuloside, betulafolienetriol, betulafolienetetraol, betulin. ^{48,50}	Anticancer, mammary carcinoma.
<i>Bidens bipinnata</i> L. <i>B. parviflora</i> Willd.	Kuei Chen Gao (Black jack)	(whole plant) Flavonoids, essential oils. ⁴⁸	Treat bug bites, diarrhea, snakebite.
<i>Bidens pilosa</i> L. var. minor (Blume) Sherff.	Sien Feng Cao (Bur marigold)	(leaf) Polyacetylenes (it is phototoxic), phenytheptatriyne. ⁵⁰	Antibiotic, treat bug bites, diarrhea, snakebite. Bactericidal, fungicidal.
<i>Bidens tripartita</i> L.	Lang Ba Cao (Water hemp)	(whole plant) Luteolin, butin, buteine, coumarin, dihydroxycoumarin, scopoletin, umbelliferone. ⁴⁸	Treat chronic dysentery, heart ailments, eczema.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Bignonia grandiflora</i> Thunb. <i>B. chinensis</i> Lam. (Syn. <i>Campsis chinensis</i>)	Zi Wei Hua (Trumpet vine)	See <i>Campsis chinensis</i>	
<i>Biota chinensis</i> Hort. <i>B. orientalis</i> L. (Syn. <i>Platycladus orientalis</i> , <i>Thuja orientalis</i>)	Ce Bai Ye	(twig) Quercitrin, pinipicrin, thujone, essential oils. ³³	Hemostatic, shorten blood clotting time, antitussive.
<i>Bistorta lapidosa</i> Kitag. (Syn. <i>Polygonum lapidosum</i>)	Shi Sheng Yu	See <i>Polygonum lapidosa</i>	
<i>Bletilla hyacinthina</i> R. Br. <i>B. striata</i> (Thunb.) Reichb.	Bai Ji (Amethyst orchid)	(tuber) Gelatin, essential oil, stilbenoids, blespirol, blestrianol, phenanthrene glucosides, bisphenanthrene theres. ^{33,434,491,492,493,494,495}	Hemostatic, promotes leukocyte and platelet aggregation. Treat hematuria, blood splitting, primary hepatic carcinoma, antimicrobial.
<i>Blumea balsumifera</i> (L.) DC var. <i>microcephala</i> Kitamura	Ai Na Xian (<i>Blumea</i> camphor)	(leaf, shoot) Essential oils, borneol, camphor, cineole, limonene, palmitic acid, myristic acid, sesquiterpene alcohol, dimethy ether, cineole, limonene, pyrocatechic tannins. ^{48,53}	Treat itch, sores, wounds. A stomachic, sudorific, tonic, diaphoretic, anticatarrhal.
<i>Blumea hieraciifolia</i> (D. Don) DC	Tu Er Cao (Camphor)	(whole plant) ⁵⁶ No information is available in the literature.	Treat pneumonia, water in the lung, diarrhea, snakebite.
<i>Blumea lacera</i> (Burm. f.) DC	Hong Tu Cao	(leaf) Carotene, coniferyl alcohol, angelic acid, vitamin C, cineole, citral, fenchone, camphor. ^{48,56}	Insectifuge, vermifuge, treat cholera, eczema, fever, itch, scurvy.

<i>Blumea riparia</i> (Blume) DC var. <i>megacephala</i> Randeria	Sha Hong Fan Cao	(root) No information is available in the literature.	Treat headache, relieve colic.
<i>Boehmeria densiflora</i> Hooker et Arnott	Mu Yu Ma (Ramie)	(leaf, root) Beta-carotene, thiamine, lignin, riboflavin, niacin, ascorbic acid, protein. ⁴⁸	Astringent, antiabortifacient, drooling, demulcent, diuretic, resolvent, uterosedative, antihemorrhagic, styptic.
<i>Boehmeria nivea</i> Gaudich. <i>B. tenacissima</i> Gaudich.	Yu Ma Gen (Grass cloth plant, ramie)	See <i>Urtica tenacissima</i>	
<i>Boenninghausenia albiflora</i> (Hook.) Meisn.	Chou Chie Cao	(aerial part) Daphnoretin. ⁵⁹	Treat malaria.
<i>Bougainvillea brasiliensis</i> Raeusch <i>B. glabra</i> Choisy var. <i>sanderiana</i> Hort.	Jiu Chung Ko	(flower, stem) Betanidin, isobeturudin, 6-O- β -sophoraside, 6-O-rhamnosyl cophoraside. ⁵⁴	Treat liver infection, regulate menses.
<i>Brassica alba</i> (L.) Rabenh. <i>B. juncea</i> (L.) Czern. et Coss.	Bai Jie Zi (Indian mustard)	(seed, young shoot) Sinigrin, myrocin, sinapic acid, sinapine, potassium myronate, mustard oil, allyl isothiocyanate, behenic acid, erucic acid, benzyl isothiocyanate, eicosenic acid. ^{48,50}	Relieve bladder inflammation, hemorrhage, abscesses, lumbago, rheumatism, stomach disorders.
<i>Brucea javanica</i> (L.) Merrill <i>B. sumatrana</i> Roxb.	Ya Dan Zi (Kosam seed)	(fruit) Bruceines, bruceolide, brusatol, oleic acid, yatanoside. ^{33,510} This herb is toxic.	Antiamoebial, anticancer, antiprotozoan.
<i>Buddleia formosana</i> Hatushima <i>B. madagascariensis</i> Hance <i>B. officinalis</i> Maxim.	Bei Pu Jiang Mi Meng Hua (Butterfly bush)	(flower bud) Buddleoglycoside. ^{33,49,53}	Improve visual acuity, prescribed as ophthalmic in nyctalopia, asthenopia, cataract.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Bupleurum chinense</i> DC <i>B. falcatum</i> L. <i>B. scorzoneraefolium</i> Willd.	Chai Hu (Hares ear)	(root) Triterpenoid saponins, sapogenins, saikosaponins, bupleuran, lignin-like polyphenolic substances, L-arabinose, D-glucose, arabinan polymer. ^{21,22,33,242,259,266,441,510}	Relieves tightness, antitumor antipyretic, inflammation of inner organs, treat chronic hepatitis, nephrosis syndrome, autoimmune diseases, antiulcer, immunopharmacological activities.
<i>Buxus harlandii</i> Hance	Xi Ye Huang Yang (Box tree)	(leaf) Cyclovibuxine D, buxanmine E, cycloprotobuxine C, buxpiine K. ⁵⁸	Improve blood circulation, enhance heart muscle, regulate heartbeat, treat hepatitis, arthritis.
<i>Buxus microphylla</i> Sieb. et Zucc.	Taiwan Huang Yang	(root) Cyclovibuxine C and D, buxamine E, cycloprotobuxamine A and C, buxtauine, buxpiine. ⁵⁸	Treat heart conditions, a detoxicant.
<i>Caesalpinia decapetula</i> (Roth.) Alston	Yun Shi (Fever nut)	(seed) Volatile oil, bonducin, saponin, glycosides. ⁶⁰	Astringent, anthelmintic, antipyretic, antimalarial.
<i>Caesalpinia pulcherrima</i> Swartz	Huang Wu Tien (Sappan wood)	(flower, leaf, seed) Alkaloid, gallic acid, resins, tannins. ⁶⁰ This herb is toxic.	Febrifuge, stomachic, diuretic, astringent, anticholeric.
<i>Caesalpinia sappan</i> L.	Su Mu (Mysore thorn)	(heartwood) Brasilin, tetraacetylbrasilin, proesapanin A, essential oils, tannic acid, gallic acid, saponin. ^{33,49,50}	Activate blood flow, remove blood stasis, reduce swelling, against human cancer cells.

<i>Calamus margaritae</i> Hance	Sheng Teng (Dragon's blood)	(root) ⁵⁰ No information is available in the literature.	Antidysenteric, antibilious, hypotensive, to treat liver infections.
<i>Calendula officinalis</i> L.	Jin Tsan Jiu (Marigold)	(whole plant) Arnidiol, carotenes, calenduline, cerylalcohol, flavoxanthin, lycopene, oleanolic acid, inulin, rebixanthin, violaxanthin. tocopherol, salicylic acid. ⁵⁰	Treat bleeding gums, bleeding piles, for amenorrhea, bruises, cholera, cramps, eruption, fevers, flu.
<i>Callicarpa formosana</i> Rolfe.	Tu Hung Hua (Callicarpa)	(flower, root) ⁵⁴ No information is available in the literature.	Diuretic, for arthritis and nerve pain, gonorrhea, and emmenagogue. Externally applied as a styptic to wounds.
<i>Callicarpa macrophylla</i> L.	Zi Zhu Cao	(leaf, root) Tannins, flavone, resin. ³³	Hemostatic, constricting the blood vessels, antibacterial, treat tubercular bleeding.
<i>Callicarpa nudiflora</i> Hook & Am.	Luo Hua Zi Zhu	(leaf) Tannins. ³³	Treat suppurative skin infections and burns.
<i>Calloglossa lepieurii</i> (Mont.) J. Ag.	Mei She Chao, Zhe Gu Cai	(whole plant) Alpha-kainic acid, digeneaside. ³³	Inhibit the myocardium and cause a drop in blood pressure.
<i>Caltha palustris</i> L. var. <i>membranacea</i> Turcz. <i>C. palustris</i> L. var. <i>sibirica</i> Regel	Luo Ti Cao (Marsh marigold)	(whole plant) Anemonin, protoanemonin, choline, hellebrin, cevadine, berberine, scopoletin, saponin, umbelliferone, isorhamnetin, xanthophyllepoxyl. ^{48,50}	Antirheumatic, antitumor.
<i>Calystegia hederacea</i> Willich ex Roxb. <i>C. japonica</i> Choisy iu Zoll.	Da Wan Hua (Ivy bindweed, Japanese bindweed)	(root, flower) Kaempferol, kaempferol-3-rhamnoglucoside, columbin, palmatine. ^{48,50}	Diuretic, stimulate kidney secretions.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Camellia bohea</i> Griff. <i>C. sinensis</i> (L.) Kuntze <i>C. theifera</i> Griff. <i>C. viridis</i> Link.	Cha (Tea)	See <i>Thea sinensis</i>	
<i>Camellia japonica</i> L.	Sha Cha Hua (Camelia)	(flower bud) Camelliagenins, d-catechol, l-epicatechol, leucoanthocyanin, arabinose, camellin, rhamnose, theasaponin. ^{49,50}	For hemoptysis, epistaxis, gastrointestinal hemorrhage, metrorrhagia.
<i>Campanula gentianoides</i> Lam. <i>C. gila</i> Thunb. <i>C. grandiflora</i> Jacq. (Syn. <i>Platycodon grandiflorum</i>)	Jie Geng	(root) Saponins, inulin, platycodigenin. ⁴⁹	As an expectorant.
<i>Campanula glomerata</i> L. f. <i>canescens</i> (Maxim.) Kitag. <i>C. glomerata</i> L. var. <i>dahurica</i> Fisch. ex Ker-Gawl. <i>C. punctata</i> Lam.	Feng Lin Cao	(whole plant) Quercetin, isorhamnetin, kaempferol, hyperoside, isoquercetin, trifolin, chlorogenic acid, methyl caffeate, coumaroylquinic acid. ⁴⁸	For throat infection, headache
<i>Campsis adrepens</i> Lour. <i>C. chinensis</i> Voss. <i>C. grandiflora</i> (Thunb.) Loiseleur (Syn. <i>Bignonia grandiflora</i>)	Zhu Wei (Chinese trumpet creeper)	(flower) Protein, dextrose, cyanidin-3-rutinoside. ⁴⁸	As emmenagogue. Treat amenorrhea, dysmenorrhea, leucorrhea, menorrhagia, metrorrhagia.

<i>Camptotheca acuminata</i> Decne.	Xi Shu (Happy tree)	(fruit) Camptothecine, venoterpine, hydroxyleamptothecin, methoxyl- camptothecin, irinotecan, 10-hydroxycamptothecin. ^{33,457,458,469} This herb is toxic.	Treat breast cancer, carcinoma of the stomach, rectum, colon and bladder, chronic leukemia.
<i>Canarium album</i> Raeusch. <i>C. sinense</i> Rumph.	Gan Lan (Chinese olive)	(seed) Beta-carotene, thiamine, riboflavin, niacin, ascorbic acid. ⁵⁰	Antiphlogistic, astringent in pharngitis.
<i>Canavalia gladiata</i> (Jacq.) DC <i>C. ensiformis</i> (L.) DC	Dao Dou (Broad bean)	(seed) Canavalline, canavanine, urease, gibberelin A ₂₁ , gibberelin A ₂₂ , canavalia gibberelin I, canavalia gibberelin II. ³³	A tonic, bactericidal, fungicidal, stomachic.
<i>Cannabis chinensis</i> Del. <i>C. sativa</i> L.	Huo Ma Ren or Da Ma Ren (Hemp)	(fruit, seed) Vitamin B ₁ , vitamin B ₂ , muscarine, choline, trigonelline, l(d)-isoleucine betaine, cannabinal, tetra-hydrocannabinol, cannabidiol. ^{33,450}	Purgative, stimulate intestinal mucosa causing an increase in secretions and peristalsis.
<i>Capsella bursa-pastoris</i> (L.) Medicus	Jie Cai (Shepherd's purse)	(whole plant) Bursic acid, alkaloids, vitamin A, choline, citric acid. ³³	Hemostatic, antihypertensive, chyluria, nephritis, edema, hematuria.
<i>Caragana franchetiana</i> Koma <i>C. intermedia</i> Kuang <i>C. microphylla</i> Lam. <i>C. sinica</i> Lam.	Jin Gi Er (Chinese caragana)	(root) Alkaloids, glucosides. ³³	Antihypertensive, anti- inflammatory.
<i>Cardamine leucantha</i> (Tausch.) O. E. Schulz. <i>C. lyrata</i> Bunge.	Sui Mi Jie	(root, leaf, seed) Erucic acid, linolenic acid, linoleic acid, oleic acid, sinigroside, lecithine, myrosinase. ⁶⁰	Treat abdominal pain, antidysentery.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Carduus acaulis</i> Thunb. <i>C. crispus</i> L. <i>C. japonicus</i> Franch. (Syn. <i>Cirsium japonicum</i>)	Xiao Ji (Plumeless thistle)	(leaf, stem) Essential oils, glycosides, bitter principle. ⁴⁹	Hemostatic.
<i>Carpesium abrotanoides</i> L. <i>C. athunbergianum</i> Sieb. et Zucc.	He Shi or Tian Min Qing (Starwort)	(whole plant, fruit) Essential oils, inlin. ⁴⁹	Ascariasis, enterobiasis, taeniasis, antiphlogistic in pharyngitis, tracheitis, laryngitis.
<i>Carthamus tinctorius</i> L.	Hong Jua (Safflower)	(flower) Cartharmin, neocarthamin, safflower yellow, quinochalone, safflomin A. ³³	Promote blood circulation, remove blood stasis, restore normal menstruation.
<i>Carum carvi</i> L.	Ye Hao (Caraway)	(fruit, aerial part) Essential oil, d-carvone, coumarin, chromone, polyacetylene, herniarin, scopoletin, umbelliferone, d-limonene, phytosterols. ^{48,50,250,450}	Carminative, treat stomach pain.
<i>Cassia alata</i> L.	Dui Ye Dou (Ringworm bush)	(whole plant) Fatty acids, aloe-emodin, rhein chrysarobin, chrysophanic acid, oxymethyl anthraquinone, rutin, isochaksine, quercetin. ^{48,450,510}	Improve night vision, migraines, astringent, purgative.

<i>Cassia angustifolia</i> Vahl.	Fan Xie Ye	(leaflet) Sennosides, aloe-emodin, dianthrone glucoside, rhein monoglucoside, rhein, kaempferin, myricyl alcohol, anthraquinone derivative. ^{33,510}	Purgative, laxative, cathartic.
<i>Cassia nomame</i> (Sieb.) Honda <i>C. obtusifolia</i> L. <i>C. tora</i> L.	Jue Ming Zi (Sicklepod)	(seed) Anthraquinones such as emodin, chrysophanol, physcion, rhein aurantio-obtusin, obtusifolin, chryso-obtusin, naphthopyrones, obtusin, aurantio-obtusin rubrofusarin, nor-rubrofusarin, toralacton. ³³	Purgative, treat ophthalmia, hypercholesterolemia, vaginitis.
<i>Cassia occidentalis</i> L. <i>C. torosa</i> Cav.	Wang Jiang Nan (Coffee senna, sicklepod)	(seed, root) Anthraquinones, torosachryson, n-methylmorpholine, apigenin, galactomannan, cassiollin, xanthorin, dianthronic heteroside, helminthosporin. ^{4,33,496}	Mild purgative, lower blood pressure, antioxidative, antiasthmatic, antitoxic, antimalarial, antibacterial, anthraquinones and hepatoprotective activities.
<i>Cassia siamea</i> Lam.	Tie Dao Mu	(leaf, flower, fruit) Chrysophanic acid, chrysarobin, oxymethyl anthraquinone. ⁶⁰	A tonic to relieve stomach pains.
<i>Cassytha filliformis</i> L.	Pan Chan Teng (Dodder laurel)	(stem) Cassyfiline, cassythidine, galactitol, cassythine, laurotetanine. ⁵⁰	Diuretic, for gonorrhea, kidney problems.
<i>Castanea crenata</i> Sieb. et Zucc. <i>C. mollissima</i> Blume	Japan Su (Chestnut)	(flower, stem bark) Quercetin, urea, protein, beta- carotene, riboflavin, thiamine, ascorbic acid, niacin. ^{48,50}	Treat diarrhea, poisoned wounds, lacquer poisoning, astringent.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Catharanthus roseus</i> (L.) G. Don	Chang Chun Hua (Madagascar periwinkle)	(whole plant) Vinblastine, vincristine, carosine, vinrosidine, lenrosine, lenrosivine, rovidine, perivine, perividine, vindoline, pericalline. ³³ This herb is toxic.	Anticancer in chronic lymphocytic leukemia and Hodgkin's disease, in acute lymphocytic leukemia.
<i>Caulophyllum robustum</i> Maxim.	Wei Yan Xian	(root) Magnoflorine, taspine, methylcytisine, alpha-lupanine, cauloside, hederagonin. ⁴⁸	Treat arthritis, wounds, regulate menstruation.
<i>Celastrus alatus</i> Thunb. <i>C. striatus</i> Thunb. (Syn. <i>Evonymus alatus</i>)	Wei Mao (Bittersweet)	See <i>Evonymus alatus</i>	
<i>Celosia argentea</i> L. var. <i>cristata</i> Bth. <i>C. cristata</i> L.	Ji Guan Hua (Quail grass or Cockscomb)	(stem, leaf, flower) Celosiol, nicotinic acid. ⁴⁸	Treat high blood pressure, itchiness, arthritis pain.
<i>Celosia argentea</i> L. <i>C. margariacea</i> L.	Cao Jue Ming (Quail grass)	(stem, leaf) Guijaverin, hyperoside, quercitin, isoquercitrin. ⁵⁰	Insecticidal.
<i>Celtis bungeana</i> Blume <i>C. sinensis</i> Pers.	Po Shu (Hackberry)	(bark) Essential oils. ⁴⁸	For dyspepsia, poor appetite, shortness of breath, swollen feet.
<i>Centaurium meyeri</i> (Bunge.) Druce	Ai Lei	(whole plant) Bitter glycoside, ophelic acid, chiretta. ⁶⁰	Treat headache, fever, and infections.

<i>Centella asiatica</i> (L.) Urb.	Ji Xue Cao (Gotu kola)	(whole plant) Asiaticoside, madecassoside, brahmoside, brahmissoside, glucoside asiaticoside, sitosterol, tannin, vallarine, pectic acid, resin. ^{33,450,510}	Antibacterial, lower blood pressure, antipyretic, diuretic, detoxicant.
<i>Centipeda minima</i> (L.) A. Braun. et Ascherison	Shi Wu Tou (Centipeda)	(whole plant) Essential oil, myriogynine, alkaloids, glycosides, saponin. ⁶⁰	Antidotal, treat conjunctivitis, piles, malaria.
<i>Cephalanoplos segetum</i>	Xiao Ji (Field thistle)	(aerial part) Alkaloids, choline, saponins. ³³	Hemostatic, cardiac stimulation.
<i>Cephalotaxus fortunei</i> Hook. <i>C. oliveri</i> Mast. <i>C. qinensis</i> (Rehd. et Wils.) Li	San Jian Shan (Plum yew)	(branch) Cephalotaxine, harringtonine, epicephalotaxine, epiwilsonine, demethylcephalotaxine, wilsonine, cephalotaxinone. ³³ This herb is toxic.	Treat malignant tumors.
<i>Cephalotaxus wilsoniana</i> Hayata	Taiwan Cu Fei	(shoot) Cephalotaxine, cephalotaxinone, acetycephalotaxine, wilsonine, demethylcephalotaxine, epicephalotaxin, harringtonine, hormoharringtonine, c-3epi- wilsonine, hydroxycephalotaxine, isoharringtonine. ⁵⁶	Antitumor, anticancer. Treat lymphatic gland swelling, improve digestion, an insecticide.
<i>Chaenomeles japonica</i> (Thunb.) Lind. <i>C. sinensis</i> Koch. <i>C. speciosa</i> (Sweet) Nakai	Japan Mu Gua Xuan Mu Gua	(fruit) Vitamin C, malic acid, tartaric acid, citric acid, hydrocyanic acid. ⁴⁹	Treat arthralgia, diarrhea, cholera, gout, arthritis.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Chamaenerion angustifolium</i> (L.) Scop. <i>C. angustifolium</i> (L.) Scop. f. pubescens (Hausskn.) Kitag.	Liu Lan	(whole plant) Crataegolic acid, penta-o-galloyl- β -d-glucose, maslinic acid, chanerol, cerylalcohol. ⁴⁸	Regulate menstruation, improve breast milk production. Externally for wounds, stop bleeding.
<i>Changium smyrnioides</i> Wolff.	Min Dong Seng	(root) ⁵⁰ No information is available in the literature.	Tonic for lungs, stomach, antiemetic, bechic.
<i>Chelidonium album</i> L. <i>C. hybridum</i> L. <i>C. majus</i> L. <i>C. serotinum</i> L.	Bai Qu Cai (Celandine poppy)	(whole plant) Chelidonine, chelidocystatin, protopine, stylophine, allocryptopine, chelerythrine, sparteine, coptisine. ^{33,256,449,497}	Anodyne, analgesic, diuretic, antitussive, detoxicant, anticancer. Treat abdominal pain, peptic ulcers, chronic bronchitis, and whooping cough.
<i>Chenopodium ambrosioides</i> L.	Chou Xing (Lambs quarter)	(leaf) Volatile oil, ascaridol, geraniol, saponin, 1-limonene, p-cymene, d-camphor, kaemferol-7 shannoside, ambroide. ^{60,450}	An anthelmintic to treat ascarids, ancylostomiasis, vermifuge, carminative.
<i>Chimaphila umbellata</i> (L.) W. Barton	Mei Li Cao	(whole plant) Arbutin, ursolic acid, homoarbutin, chimaphilin, isohomoarbutin, hyperin, avicularin, kaempferol, renifolin, beta-amyrin, ericolin, andromedotoxin, chinic acid. ⁴⁸	Diuretic, relieve stomach, tooth and after-birth pains, antifungal.

<i>Chloranthus glubra</i> (Thunb.) Nakai <i>C. oldhami</i> Solms.	Jiu Jie Cha Si Ye Lian (Chloranthus)	(leaf, stem) Essential oils, flavonoids, pelargonidin-3-rhamnosylglucoside. ⁵⁴	Treat bone fractures, vomiting, contusions, lung infection, an astringent. Antitumor, improve immune system, relieve arthritis pain.
<i>Chrysanthemum boreale</i> (Makino) Makino <i>C. indicum</i> L. <i>C. lavandulaefolium</i> (Fisch.) Mak. <i>C. procumbens</i> Lour. <i>C. tripartitum</i> Sw.	Ye Jiu Hua (Chrysanthemum)	(flower, petal) Alpha-pinene, limonene, carvone, cineol, camphore, borneol, chrysanthinin, yejuhualactone, chrysanthemaxanthin. ³³	Antibacterial, relieve headache, insomnia, and dizziness due to high blood pressure.
<i>Chrysanthemum cinerriaefolium</i> Visient	Chu Gu Jiu (Chrysanthemum)	(flower) Essential oil, adenine, choline, stachydrine. ⁶⁰	Used as insecticides.
<i>Chrysanthemum jucundum</i> Nakai & Kitag. <i>C. koraiense</i> Nakai <i>C. morifolium</i> Ramat. <i>C. sinense</i> Sabine.	Jiu Hua (Chrysanthemum)	(flower) Bornol, chrysanthemin, camphor, stachydrine, choline, acacetin-7-rhamnoglucoside, cosmosiin, acacetin-7-glucoside, diosmetin-7-glucoside, adenine. ³³	Antipyretic, antitoxin, remedy for common cold, headache, dizziness, red eye, swelling, hypertension.
<i>Cibotium barometz</i> (L.) J. Smith	Hie Quin Cao (Lamb of Tartary)	(root) Palmitic acid, linoleic acid. ^{50,230}	A tonic, digestive, laxative, analgesic in rheumatism, lumbago, myospasm.
<i>Cimicifuga dahurica</i> (Turcz.) Maxim. <i>C. foetida</i> L. <i>C. heracleifolia</i> Kom. <i>C. racemosa</i> (L.) Nutt. <i>C. ussuriensis</i> Oettingen	Sheng Ma (Stinking bugbane)	(rhizome) Ferulic acid, isoferulic acid, cimigenol, khellol, aminol, cimifugenol, cimitin. ³³	Induce diaphoresis, promote skin eruption.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Cinnamomum aromaticum</i> Nees. <i>C. cassia</i> Presl.	Gui Zhi (Cinnamon)	(twig, bark) Cinnamic aldehyde, cinnamyl acetate, cinnamic acid, eugenol, phellandrene, phenylpropyl alcohol, coumarin, cinnamic aldehyde, orthomethylcoumaric aldehyde. ^{33,49,254,435,510}	Antibacterial, vasodilatation, aromatic stomachic, astringent, tonic, analgesic, stimulate human lymphocytes to proliferate.
<i>Cinnamomum camphora</i> (L.) J. S. Presl.	Chang Shu (Cinnamon)	(root, branch, leaf) d-camphor, eucalyptole, cineole, pinene, aromadendrene, cumaldehyde, pinocarveol, 1-acetyl-4-isopropylidenecyclopentene. ^{33,53}	Stimulate nervous system, relax gastrointestinal muscle contractions.
<i>Cinnamomum zegganicum</i> Blume	Ceylon Rou Gui (Ceylon cinnamon)	(bark) Cinnamic aldehyde, p-cymene, hydrocinnamic aldehyde, pinene, benzaldehyde, cuminic aldehyde, nonylic aldehyde, eugenol, caryophyllene, l-phellandrine, methyl-n-amyl ketone, l-linalool. ⁶⁰	Stimulant to digestion, respiration, circulation.
<i>Cirsium albescens</i> Kitamura <i>C. brevicaulis</i> A. Grey <i>C. littorale</i> Max. <i>C. maakii</i> Max. <i>C. segetum</i> Bunge. <i>C. setosum</i> (Willd.) Bieb. <i>C. vlassovianum</i> Fisch. ex DC	Xiao Ji	(whole plant) Essential oil, rutin, acacetin-7-rhomonoglucoside, protocathechuic acid, caffeic acid, chlorogenic acid. ^{48,49}	Hemostat, diuretic, stop bleeding, externally for wound infections.

<i>Cirsium chinense</i> Gardn. et Champ. <i>C. japonicum</i> DC	Chinese Ji Da Ji (Thistle)	(leaf, stem) Alpha-amyrin, beta-amyrin, beta-sitosterol, stigmasterol, taraxsteryl acetate, inulin, labenzyme, pectolinarin. ^{50,60}	Hemostat, diuretic, treat intestinal bleeding caused by ulcers, externally for abscesses and scabies.
<i>Cissampelos pareira</i> L.	Xi Sheng Teng (Ice vine)	(plant) Cissampareine, hayatine, pelosine, isoquinoline, hayatinine, berberine, dl-beheerine, dl-curine, D-guereitol, d-isochondrodendrine, hayatidine, cissamine, menisnine, reserpine, cissampeline. ^{33,450}	Blockade of NMJ depolarization. Used externally on wound surfaces to relieve pain.
<i>Cistanche deserticola</i> Y. C. Ma	Rou Chon Wun (Broomrape)	(whole plant) Boschnialactone, boschniakine, neoboschnialactone, echinococside. ^{33,244}	Antioxidant activity, antisenile, immunopharmacological effect, stimulate hypothalamus-pituitary system, increase memory power, sex function.
<i>Citrullus anguria</i> Duch. <i>C. edulis</i> Spach. <i>C. lanatus</i> Matsumura & Nakai <i>C. vulgaris</i> Schrad.	Xi Gua (Watermelon)	(fruit, seed) Cucurbitacins, carpylic acid, capric acid, lauric acid, myristic acid, palmitic acid, stearic acid, oleic acid, linoleic acid, sterol, citrulline. ^{50,351}	For alcohol poisoning, diabetes, nephritis, sore throat, stomatitis, demulcent.
<i>Citrus aurantium</i> (Christm.) Swingle var. amara	Suan Cheng (Bitter orange)	(unripe fruit) Synephrine, N-methyltyramine, flavones including tangeratin and nobiletin. ³³	Treat indigestion, relieve abdominal distension, ptosis of the anus or uterus.
<i>Citrus deliciosa</i> Tenore <i>C. nobilis</i> Lour.	Jiu Pi (Orange)	(fruit skin) Vitamin A, B and C, hesperidin, limonene, citral, methyl anthranilate. ⁴⁹	Stomachic, digestant, expectorant, antitussive, antiemetic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Citrus reticulata</i> Blanco <i>C. reticulata</i> Blanco. var. <i>chachiensis</i>	Jiu Hong, Chen Pi (Orange)	(external layer of pericarp) Citral, geraniol, linalool, methylanthranilate, stachydrine, putrescine, apyrocatechol, naringin, poncirin, hesperidin, neohesperidin, nobiletin. ³³	Expectorant, antitussive, treat indigestion, an antiemetic agent.
<i>Clematis armandii</i> Franch. <i>C. heracleifolia</i> DC <i>C. heracleifolia</i> DC var. <i>dauidiana</i> (Decaisue ex Verlot) O. Kuntze	Mu Tong (Clematis)	(stem) Aristolochic acid, saponin akebin, triterpenoids. ^{25,33}	Diuretic, antibacterial.
<i>Clematis chinensis</i> Retz. <i>C. florida</i> Thunb. <i>C. hexapetala</i> Pall. <i>C. hexapetala</i> Pall. f. <i>longiloba</i> (Freyn) S. H. Li et Y. H. Huang <i>C. minor</i> Lour. <i>C. sinensis</i> Lour. <i>C. terniflora</i> DC	Wei Ling Xian (Clematis)	(root) Anemonin, anemonol, saponins. ^{33,49,246}	Analgesia, diuresis, carminative, diuretic, anti-inflammatory, treat arthritis, backache, headaches.
<i>Clematis intricata</i> Bunge. <i>C. mandshurica</i> Rupr.	Tie Xian Lian (Clematis)	(whole plant) Clematoside A, oleanolic acid. ⁴⁸	Relieve arthritis pain and related infections.
<i>Cleome spinosa</i> Jacquin <i>C. gynandra</i> L. <i>C. viscosa</i> L.	Xi Yang Bai Hua Cai Xiang Tian Huang (Spiderwisp)	(seed) Cleomin, lactone, tannins, volatile oils. ⁵⁰	Treat dysentery, gonorrhea, malaria, rheumatoid arthritis.

<i>Clerodendrum cyrtophyllum</i> Turcsaninow	Da Qing (<i>Clerodendrum</i>)	(leaf, root) Indirubin, ingigo, tryptanthrin, isatan B, glucobrassicin, 3-indolylmethylgluco-sinolate, neoglucobrassicin, isoindigo, indican, lacerol. ⁵³	Antipyretic, detoxicant, diuretic, preventive for epidemic meningitis.
<i>Clerodendrum fragrans</i> Ventenat	Chou Mu Lee	(stem, root) 24beta-methylcholesta-5, 22E,25-trien-3beta-ol, clerosterol, 24alpha-ethyl-5alpha-cholest-22E- en-3beta-ol, 22E- dehydroclerosterol. ^{48,196}	Strengthen weak leg muscles, skin trouble, smallpox.
<i>Clerodendrum paniculatum</i> L. var. albiflorum (Hemsl.) Hsieh.	Bai Long Chuan Hua	(root) 24beta-epimer poriferasterol, 24alpha-epimer stigmasterol. ⁵⁶	For gonorrhea, skin diseases, diuretic, regulate menses.
<i>Clerodendrum trichotomum</i> Thunb. <i>C. spicatus</i> (Thunb.) C. Y. Wu <i>C. trichotomum</i> Thunb. var. ferrugineum Nakai	Chou Wu Tong (Hairy <i>clerodendrum</i>)	(leaf, stem, root) Glycosides clerodendrin, acacetin- 7-glucurono-(1,2)-glucuronide, clerodendrin, mesoinositol, clerodolone, apigenin-7- diglucuronide, friedelin, epifriedelin. ^{33,48,71}	Treat hypertension, arthritis pain.
<i>Clinopodium chinense</i> (Benth.) <i>C. gracile</i> (Benth.) O. Kuntze. <i>C. polycephalum</i> (Benth.) <i>C. umbrosum</i> (Bleb.) C. Koch.	Duan Xue Liu Guang Feng Lun Cai Feng Lun Cai	(whole plant) Dydimin, hesperidin, siosakuranetin, apigenin, ursolic acid. ⁴⁸	Hemostatic, stimulate uterine contractions, antibacterial.
<i>Clivia miniata</i> Lindley	Jun Zi Lian	(whole plant) Clividine, miniatine, lycorine. ⁵⁷	Anticancer, antitumor.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Cnidium monnieri</i> (L.) Cusson	She Cheung Zi	(whole plant) Archangelicin, columbianetin, O-acetylcolumbianetin, O-isovaleryl columbianetin, cnidiadin, cnidimine, l-pinene, l-camphen. ³³	A trichomonocidal agent, antiascariac, antifungal.
<i>Cocculus diversifolius</i> Miq. <i>C. thunbergii</i> DC	Fang Ji, Japan Han Fang Ji, Qing Teng	(root) Sinomenine, disinomenine, sinoacutine, isosinomenine, sinactine, tuduranine, michelalbine, acutumine, acutumidine. ³³	Similar to morphine but less potent. Sedative, antitussive, anti-inflammatory.
<i>Cocculus laurifolius</i> DC <i>C. sarmentosus</i> DC <i>C. trilobus</i> (Thunb.) DC	Mu Fang Ji Japan Mu Fang Ji	(root) Magnoflorine, triboline, homotrilobine, isotrilobine, normenisarine, coclobine, cocculolidine, trilobamine. ³³	Analgesic effect, can reduce swelling, relieve arthritis pain and neuralgia, treat pulmonary and cardiac edema.
<i>Codonopsis lanceolata</i> (Sieb. et Zucc.) Trautv.	Yang Lu (Bellflower)	(whole plant) Apigenin, luteolin, alpha-spinasterol, stigmastanol, oleanolic acid, echinocystic acid, albigenic acid. ⁴⁸	Treat lung abscesses, stimulate milk flow, treat amenorrhea.
<i>Codonopsis pilosula</i> (Franch.) Nannfeldt <i>C. tangshen</i> Oliv. <i>C. ussuriensis</i> (Rupr. et Maxim.) Hemsl.	Dong Seng	(root) Taraxeryl acetate, friedelin, n-butyl allophanate, inulin, sucrose, amino acids, stigmasterol, spinasterol, methyl palmitate, taraxerol, triterpenoids, delta-spinasterol, delta-7-stigmastanol, perlolyrine glucopyranosides. ^{48,253,470,471}	For amnesia, anorexia, asthma, cachexia, cancer, impotence, insomnia, palpitations, hypotensive and vasorelaxant activities.

<i>Coix agrestis</i> Lour. <i>C. chinensis</i> Tod. <i>C. lachryma</i> L. <i>C. lachryma-jobi</i> L. var. <i>ma-yuen</i> (Roman) Stapf.	Yi Yi (Rosary beads)	(seed, root) Coixenolide, coixol, protein, myristic acid, palmitic acid, stearic acid, oleic acid, linoleic acid, polysaccharides, triglycerides, phospholipids, benzoxazinones, adenosine. ^{48,50,239,437,472,473,475}	For intestinal or lung cancers and warts, antitumor, antirheumatic, diuretic, refrigerant.
<i>Commelina communis</i> L.	Ya Zhi Cao (Dayflower)	(aerial part) Awobanin, commelin, flavoccommelin. ³³	Antibacterial, antipyretic, diuretic, antiedematic.
<i>Commiphora myrrha</i> Engler	Mo Yao (Myrrh)	(stem) From gum resin, essential oils including myrcene, alpha-camphorene, Z-guggulsterol, guggulsterol, makulor, cembrene. ³³	Stimulate blood flow, relieve pain, promote tissue regeneration.
<i>Conioselinum univittatum</i> Turcz.	Gong Chong	(root) Essential oil. ⁴⁹	Emmenagogue, sedative.
<i>Convallaria keiskei</i> Miq.	Ling Lan	(whole plant) Convallatoxin, convallaside, convallamarin, convallatoxol. ³³ This herb is toxic.	Treat heart disease, detoxify the liver.
<i>Convolvulus arvensis</i> L.	Tian Xuan Hua (Bindweed)	(whole plant) Quercetin, kaempferol, caffeic acid, beta-methylaesculetin. ⁴⁸	Improve blood circulation, relieve pain and itchiness.
<i>Conyza canadensis</i> (L.) Cronq.	Xiao Fei Peng	(aerial part) Essential oils, matricaria ester, dehydromatricaria ester, linoleyl acetate, limonene, linalool, centaur X, dephenyl methane-2-carboxylic acid, cumulene, O-benzylbezoic acid. ⁴⁸	Relieve swelling, itchiness, treat intestine and liver infection, a detoxicant, externally for skin eczema, wounds, pain caused by arthritis, toothache.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Coptis chinensis</i> Franch. <i>C. japonica</i> Makino <i>C. teeta</i> Wall.	Huang Lian (Gold thread)	(root) Berberine, coptisine, urbenine, worenine, palmatine, jatrorrhizine, columbamine, lumicaerulic acid. ^{33,60,248,510} This herb is toxic.	Antiarrhythmic, antibacterial, antiviral, antiprotozoal, anticerebral ischemic.
<i>Corchorus capsularis</i> L. <i>C. olitorius</i> L.	Huang Ma Sha Ma (Jute)	(leaf, flower) Glycosides, capsularin, corchorin, corchoritin, aglycone, strophanthidin, digitoxigenin, corolloside, glucoevatromonoside, erysimoside, olitoriside, linolic acid, corchoroside, helveticoside, corchotoxin, oleic acid, palmitic acid, stearic acid. ^{60,498,499,500}	Treat dysentery, consumptive cough, epistaxis, bladder diseases. Inhibitory effect on lipopolysaccharide-induced NO production in cultured mouse peritoneal macrophages.
<i>Cordyceps sinensis</i> Link.	Dong Chong Xia Chao	(fruit body) 2'-deoxyadenosine, adenosine, sterols, saccharides, protein, cordycepin, d-mannitol. ^{33,91,92,401,402,412,413,414,459} Lead poisoning was reported. ²³⁸	Antisenescence, hypolipidemic, endocrine, antitumor, antiatherosclerotic and sexual function-restorative activities. Treat respiratory, renal, liver and cardiovascular diseases, antileukemic cells, hyposexuality, and hyperlipidemia.

<i>Coriandrum sativum</i> L.	Hu Sui (Coriander)	(leaf) Acetone, borneol, coriandrol, cymene, decanal, decanol, decylic aldehyde, dipentene, geraniol, rutin, limonene, linalool, malic acid, nonanal, oxalic acid, phellandrene, tannic acid, terpinene, terpinolen, umbelliferone, scopoletun, coumarins, quercetin, kaepferal, aflatoxins. ^{50,450}	Eruptions of pox and measles.
<i>Coriolus versicolor</i> (L. ex Fr.) Quel.	Yun Chih	Polysaccharides, polysaccharopeptide. ^{415,416,417,418}	Antimetastatic effect, anti-lung cancer, tumor inhibition, against immunodeficiency virus.
<i>Cornus alba</i> L. <i>C. kousa</i> Hance <i>C. macrophylla</i> Wallich	Si Zhao Hua Jian Zi Mu (Dogwood)	(bark, shoot, leaf) Quercitol, kaempferol, dihydroxyglutamic acid, phenethylamine. ⁴⁸	Astringent, antimalarial, treat arthritis, backache, diabetes, hepatitis, malaria, metrorrhagia, cancer.
<i>Cornus officinalis</i> Sieb. et Zucc.	Shan Zhu Yu (Dogwood)	(sarcocarp) Morroniside, 7-O-methyl- morroniside, sworoside, loganin, longiceroside, tannic acid, resin, tartaric acid, cornin, gallic acid, malic acid. ^{33,60}	Diuretic, treat dysmenorrhea, excessive menstruation, impotency, backache, dizziness.
<i>Cornus walteri</i> Wangerin	Korean Si Zhao Hua (Korean cornel)	(leaf, fruit) Fatty acid, loganin, linolenic acid. ^{48,53}	An astringent.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Corydalis ambigua</i> Cham. et Schlecht. var. <i>amurensis</i> Maxim. <i>C. repens</i> Mandl. et Muehld. var. <i>watnabei</i> (Kitag.) Y. C. Chu <i>C. ternata</i> (Nakai) Nakai <i>C. turtchaninovii</i> Besser Bess f. <i>yanhusa</i> <i>C. yanhusuo</i> W.T.Wang ex Z. Y. Su et C. Y. Wu	Yan Hu Suo Korean Yan Hu Suo	(tuber) d-corydaline, corydalis, dl-tetrahydropalmatine, crybulbine, tetrahydrocoptisine, corydalamine, tetrahydrocolumbamine, protopine, alpha-allocryptopine, coptisine, dehydrocorydaline, columbamine, dehydrocorydalmine. ³³ Toxic if overdosage.	Analgesic, sedative, hypnotic, synergistic, increase coronary blood flow.
<i>Corydalis decumbens</i> (Thunb.) Pers.	Xia Tian Wu	(aerial part) Protopine, bulbocapnine, d-tetrahydropalmatine. ^{33,240} Toxic if overdosage.	Relieve pain after bone fractures, antihypertensive, antirheumatic.
<i>Corydalis incisa</i> (Thunb.) Pers. <i>C. bungeana</i> Turcz.	Chuan Duan Chang Cao Di Ding Zi Jing (Corydalis)	(whole plant) Protopine, pallidine, sinocecatine, corynoline, isocorynoline, coptisine, corycavine, acetylcorynoline, corynoloxin, coreximine, reliculine, corydamine, scoulerine. ^{33,50}	For rectal prolapse, abscesses, hemorrhoids.
<i>Corylus heterophylla</i> Fisch. ex Besser. <i>C. mandshurica</i> Maxim. ex Rupr. <i>C. mandshurica</i> Maxim. ex Rupr. f. <i>brevituba</i> (Kom.) Kitag.	Zhen (Filbert)	(seed) Beta-carotene, thiamine, riboflavin, niacin, ascorbic acid. ⁵⁰	To improve appetite, a digestive.

<i>Costus speciosus</i> (Koen.) Smith	Bi Qao Jiang (Crepe ginger)	(whole plant) Diogenin, tigogenin, corticosteroids, 3-(4-hydroxyphenyl)-2 (E)-propenoate. ^{50,194,450}	For fever, anasarca, asthma, bronchitis, cholera, antifungal.
<i>Cotinus coggygia</i> Scop.	Huang Lu (Smoke tree)	(leaf, twig) Myricetin, myricitrin, fisetin, fustin. ³³	Antipyretic.
<i>Cotyledon fimbriatum</i> Turcz. <i>C. malacophylla</i> Pall.	Zuo Yie He Cao	(whole plant) ⁵⁰ No information is available in the literature.	Treat tumors, for dysentery, hemostatic, stop intestinal bleeding.
<i>Crataegus cuneata</i> Sieb. et Zucc. <i>C. chlorusarca</i> Maxim. <i>C. dahurica</i> Koehne ex Schneid. <i>C. maximowiczii</i> Schneid. <i>C. pentagyna</i> Waldst. et Kit. <i>C. pinnatifida</i> Bunge. <i>C. sanguinea</i> Pall.	Shan Zha (Hawthorn)	(unripe or ripe fruit) Flavonoids, quercetin, hyperoside, l-epicatechin, d-catechin, saponins, chlorogenic acid, caffeic acid, citric acid, crataegolic acid, corosolic acid, maslinic acid, ursolic acid. ^{13,33,231}	Cardiotonic agent, treat hypercholesterolemia, angina pectoris, hypertension.
<i>Crocus sativus</i> L.	Shi Hong Hua (Saffron)	(root) Crocetin, crocetin geniobiose glucose ester, crocetin di-glucose ester, crotin, lycopene, beta- carotene. ^{33,450}	Ameliorating effect on ethanol- induced impairment of learning and memory.
<i>Crotalaria mucronata</i> Desv.	Zhu Shi Tou (Rattlebox)	(whole plant) Mucronatine, mucronatinine, retroresine, usaramine, nilgirine, vitexin, vitrexin-4-O-xyloside, apigenin. ³³	Treat frequent urination in children, edema, chronic diarrhea, pelvic infections.
<i>Crotalaria sessiliflora</i> L.	Ye Bai He (Narrow-leaved rattlebox)	(whole plant) Monocrotalines. ³³ This herb is toxic.	Anticancer.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Croton cascarilloides</i> Raeushel <i>C. tiglium</i> L.	Ba Dou (Croton)	(seed) Croton resin, phorbol, crotonic acid, crotin, crotonoside. ^{33,144} This herb is very toxic.	Purgative, wound healing properties.
<i>Cryptotaenia japonica</i> Hasskarl <i>C. canadensis</i> (L.) DC	Japan Liu Shan Ya Er Qin	(whole plant) Cryptotaenen, kiganen, kiganol, petroselic acid, isomesityl oxide, mesityl oxide, methyl isobutyl ketone, <i>trans</i> -beta-ocimene, terpinolene. ^{48,50}	For diarrhea, dysmenorrhea, rheumatism, tubercular glands.
<i>Cucumis melo</i> L.	Gua Di (Cantaloupe)	(pedicel) Melotoxin, cucurbitacin B, cucurbitacin E, sterol. ^{33,351}	Produce vomiting for drug intoxication, treat toxic and chronic hepatitis and cirrhosis of the liver.
<i>Cucumis sativus</i> L.	Huang Gua (Cucumber)	(leaf, fruit, seed) Arginine, caffeic acid, chlorogenic acid, cucurbitacins, fructose, galactose, isoquercitrin, mannose, 2,6-nonadienol, rutin, linoleic acid, oleic acid, palmitic acid, stearic acid, sterol. ^{50,351}	Diuretic, purgative, vermifuge, pulp can be used for burns, scalds, and skin ailments.
<i>Cucurbita moschata</i> Duch. var. <i>melonaeformis</i> (Carr.) Makino <i>C. pepo</i> L.	Nan Gua Zi (Winter crookneck squash)	(seed) Cucurbitine, sterol. ^{33,235,351}	Treat taeniasis.
<i>Cunninghamia lanceolata</i> (Lamb.) Hooker	Shan (China fir)	(stem) Borneol, camphene, cineole, citrene, limonene, phellandrine, pinene, terpineol, essential oils. ⁵⁰	For lacquer poisoning, chronic ulcers, cholera, flatulence.

<i>Curculigo capitulata</i> (Lour.) O. Kuntze <i>C. ensifolia</i> R. Br. <i>C. malabarica</i> Labill. <i>C. orchiodes</i> Gaertn. <i>C. stans</i> Labill.	Da Xian Mao Xian Mao (Black musli)	(rhizome) Calcium oxalate, resin, tannins. ⁵⁰	Improve immuncity, stimulate endocrine system.
<i>Curcuma longa</i> L. <i>C. domestica</i> L.	Yu Jin (Turmeric)	(tuber) l-curcamene, sesquiterpene, camphor, camphene, curmarin, curzerenone, curzenene, curcuminol, furanodienone, furanodiene, zederone, curcolone, diol, procurcumenol, curdione, curcumin. ^{33,398,460,510}	Anti-inflammatory, antitumor, anti-infectious properties, antioxidative activity. Activate blood flow, remove blood stasis.
<i>Curcuma pallida</i> Lour. <i>C. phaeocoulis</i> Val.	E Zhu Peng Wo Mao	(rhizome) Volatile oil, cineole, camphene, zingiberene, borneol, camphor, curcumin, zedoarin, gum, resin. ⁶⁰	Stomachic, carminative.
<i>Curcuma zedoaria</i> (Christ.) Roscoe <i>C. aromatica</i> Salisk. <i>C. kwangsiensis</i> A. Lee	E Zu (Wild turmeric)	(rhizome) Curzerenone, curzenene, zederone, zerumbone, furanodiene, curdione, furanodienone, curculone, diol, procurcumenol, curcumin, turmerone, zingiberene, 3-(4-hydroxyphenyl)-2 (E)-propenoate. ^{33,192,194} This herb is toxic.	Inhibit mutagenesis and tumor promotion, anti-inflammatory, antitumor, anti-infectious, antifungal, anti-HIV.
<i>Cuscuta australis</i> R. Brown	Dou Tu Si (Dodder)	(seed, aerial part) Carotenoids, alpha-carotene-5, 6-epoxide, taraxanthin, lutein. ⁴⁸	For fever, constipation, diuretic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Cuscuta chinensis</i> Lam. <i>C. europaea</i> L. <i>C. japonica</i> Choisy <i>C. lupuliformis</i> Krockner	Tu Si Zi (Dodder)	(seed) Cuscutalin, bergenin, cuscutin, amarbelin, cholesterol, campesterol, beta-sitosterol, stigmasterol, beta-amyrin. ⁴⁸	Improve immunity, increase blood sugar metabolism.
<i>Cyathula prostrate</i> (L.) Blume	Bei Xian	(leaf, root) Ecdysterone. ⁵⁰	Laxative, for dysentery, rheumatism, syphilis.
<i>Cycas revoluta</i> Thunb.	Tie Shu (Sago palm)	(leaf) Sotelsulflavone, hinokiflavone, amentoflavone. ³³	Promote blood circulation.
<i>Cydonia sinensis</i> Thou. (Syn. <i>Chaomeles sinensis</i>)	Xuan Mu Gua (Quince)	(fruit) Vitamin C, malic acid, tartaric acid, citric acid, hydrocyanic acid. ⁴⁹	As astringent in diarrhea, analgesic in arthralgia, gout, cholera.
<i>Cymbidium hyacinthinum</i> Sm. <i>C. striatum</i> Sw. (Syn. <i>Bletilla hyacinthina</i>)	Bai Ji	(root) Mucilage, essential oil, glycogen. ⁴⁹	For stomachache, venereal disease. Externally as emollient for burns and skin disorders.
<i>Cymbopogon citratus</i> (DC) Stapf.	Ning Meng Sian Mao (West Indian lemongrass, citronella)	(leaf, root) Elemicin, cymbopogonol, citral, dipentene, methylheptenone, beta-dihydropseudoionone, linalool, methylheptenol, alpha-terpineol, geraniol, nerol, farnesol, caprylic, citrogellol, citronellal, decanal, farnesal, isovaleric, geranic, citronellic. ^{50,60}	Treat blood in the urine, fever, antiseptic, preservative.

<i>Cymbopogon distans</i> (Nees ex Steud.) J. F. Watson <i>C. goeringii</i> (Steud.) A. Camus <i>C. nardus</i> Rendle	Yun Xian Cao Xian Mao	(aerial part) Piperitone, essential oils. ^{33,192}	Antagonize muscle contraction, antitussive, antibacterial.
<i>Cynanchum atratum</i> Bunge. <i>C. auriculatum</i> Royle	Bai Way	(stem, root) Cynanchol, cynanchin, cynanchocerin. ^{50,267} This herb cause abortion in sow.	For fever, leucorrhea, nephritis, tuberculosis, antipyretic, diuretic.
<i>Cynanchum japonicum</i> Moore et Decne.	Bai Chen	(root) ⁵⁰ No information is available in the literature.	Antitussive, expectorant, for bad cold with cough and discomfort in the chest, asthmatic breathing, and acute bronchitis.
<i>Cynanchum paniculatum</i> L.	Xu Chang Qing	(root) Paeonol, paeonin, tomentogenin, deacylcynanchogenin, sarcostin, deacylmetaplexigenin. ^{33,50}	Sedative, analgesic, effect on the cardiovascular system, lower plasma cholesterol level.
<i>Cynodon dactylon</i> (L.) Persoon	Tie Xian Cao	(root) Beta-sitosterol. ⁵⁰	Anticancer, depurative, diuretic, emollient.
<i>Cynoglossum divaricatum</i> Stemphan	Dao Ti Hu (Cynoglossum, hound's tongue)	(leaf) Potassium nitrate. ⁹⁶	A diuretic.
<i>Cynomorium coccineum</i> L. <i>C. songarium</i> L.	Su Yang (Juniper)	(stem) Anthocyanin, beta-sitosterol, palmitic acid, ursolic acid, daucosterol, catechin, naringenin-4'-O-pyrangluoside, succinic acid. ^{53,215}	Improve immunity, stimulate endocrine system, aphrodisiac, spermatopoietic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Cyperus brevifolius</i> (Rottb.) Hassk. <i>C. difformis</i> L. <i>C. glomeratus</i> L. <i>C. iria</i> L.	Sha Cao	(rhizome) Allelopathic essential oils, terpenes, alpha-cyperone, beta-selinene, alpha-humulene. ^{60,197,198}	A vermifuge, antidote, remedy for dysentery, alleviate stress, sedative.
<i>Cyperus rotundus</i> L.	Xiang Fu (Nut grass)	(tuber) Essential oils, alpha-cyperene, beta-cyperene, alpha-cyperol, beta-cyperol, cyperone, patchoulene, kobusone, capadiene, epoxyquaine, rotundone, rotunol, terpenes, olealonic acid, beta-sitosterol, pinene, sesquiterpenes. ^{33,450}	Treat dysmenorrhea, menstrual irregularities.
<i>Cypripedium guttatum</i> Swartz <i>C. macranthum</i> Swartz <i>C. macranthum</i> Swartz f. albiflorum Y. C. Chu <i>C. pubescens</i> Willd.	Shao Lan	(root, flower) Flavonoids, phenols, sterols, vitamin C. ⁴⁸	Diuretic, improve blood circulation, relieve pain.
<i>Cyrtomium falcatum</i> (L. f.) Presel.	Quan Yuan Guan Zhong	(root) Flavonoid, cyrtomin, astragalin, isoquercitrin. ⁵⁷	Treat cold, fever, dizziness due to high blood pressure, insomnia.
<i>Cytisus scoparius</i> (L.) Link.	Jin Que Hua (Scotch broom)	(root) Sparteine, sarothamine, genisteine, scoparin. ⁶⁰	As a fomentation for bruises, a remedy for coughs, colds.
<i>Daemonorops draco</i> Blume.	Xue Jie	(resinous secretion from fruits) Amorphous dracoresene, amorphous dracoalban, benzoic acid, cinnamic acid, resin. ⁴⁹	Astringent, hemostatic, anticancer, for cancerous sores.

<i>Daemonorops margaritae</i> (Hance) Beccari	Huang Teng	(aerial plant) Dracoalban, dracoresene, dracoresinotannol, benzolacetic ester. ⁶⁰	Astringent.
<i>Daphne fortunei</i> Lindl. <i>D. genkwa</i> Sieb. et Zucc.	Yuan Hua (Fish poison)	(flower) Genkwanin, yuanhuacine, apigenin, hydroxygenkwanin, yuanhuatine, yuanhuadine, genkwadaphnin, 12-benzoydaphnetoxin. ^{33,53,144,235} This herb is toxic.	Induce abortion, treat chronic bronchitis, malaria, cutaneous infections.
<i>Daphne giraldii</i> Nitsche <i>D. gurakduu</i> Nitsche <i>D. retusa</i> Hemsl. <i>D. tangutica</i> Maxim.	Zu Si Ma (Mezerum)	(root bark) Daphnetins. ³³	Analgesic, anti-inflammatory, antibacterial.
<i>Daphne koreana</i> Nakai	Chang Bai Rui Xiang (Daphne)	(root, stem) Daphnetins. ³³	Treat angina pectoris, arthritis.
<i>Daphnidium myrrha</i> Sieb. et Zucc. <i>D. strychnifolius</i> Sieb. et Zucc.	Wu Yao	See <i>Lindera strychnifolia</i>	
<i>Datura alba</i> Nees. <i>D. fastuosa</i> L. var. <i>alba</i> Clark <i>D. innoxia</i> Mill. <i>D. metel</i> L. <i>D. stramonium</i> L. <i>D. tatula</i> L.	Man Tu Luo (Jimsonweed)	(leaf, seed, flower) Scopolamine, hyoscyamine, daturiodiol, daturolone, hyoscyne. ^{33,144,450} This herb is toxic.	Spasmolytic, analgesic, antiasthmatic, antirheumatic agent. A general anesthetic for major operations.
<i>Datura suaveolens</i> Humb. & Bonpl. ex Willd.	San Hu Shu	(leaf, seed) l-hyoscyamine, scopolamine, atropine, anisodine, anisodamine. ⁵³	Antispasmodic, bronchodilator.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Daucus carota</i> L. subsp. sativa Hoffm.	Nan He Chi (Carrot)	(whole plant) Carotenes, lycopene, phytofluene, umbelliferone, alpha-pinene, camphene, myrcene, daucol, alpha-phellandrene, bisabolene, luteolin-7-glucoside, daucine, pyrrolidine, geraniol, citronellol, carotol, citral, caryophyllene, p-cymene, asarone, daucosterol, petroselinic acid. ⁴⁸	For chronic dysentery, worms, carminative, diuretic, emmenagogue, lower blood sugar, prevent cancer, diabetes, dyspepsia and gout.
<i>Delonix regia</i> (Boj.) Raf.	Feng Huan Mu	(bark, leaf) Gum, saponin, alkaloid. ⁶¹	Febrifuge.
<i>Delphinium grandiflorum</i> L.	Cui Que	(root, whole plant) Methylcaconitine. ⁴⁸	Emetic, cathartic.
<i>Dendrobium nobile</i> Lindl.	Shi Dou (Orchid)	(stem) Dendrobine. ⁵⁰	Analgesic, hyperglycemic, hypotensive, hypothermic.
<i>Desmodium microphyllum</i> (Thunb.) DC	Sui Me Jie	(whole plant) Kaempferitrin. ⁴⁸	Antitoxic, relieve diarrhea, cough, pain, snakebite.
<i>Desmodium pulehellum</i> (L.) Benth.	Pai Qian Chao	(aerial part) Bufotenine, nigerine, donoxime. ³³	Antimalarial, antipyretic, antischistosomiasis.
<i>Desmodium triflorum</i> (L.) DC	San Dian Jin Cao	(whole plant) Potassium oxide, silicic acid, tannins. ⁶⁰	For dysentery, antirheumatic, antipyretic, jaundice, gonorrhea. Externally for wounds, abscesses, ulcers.
<i>Desmodium triquetrum</i> (L.) DC	Hu Lu Cao	(leaf) Potassium oxide, silicic acid, tannins. ^{50,60}	A tonic for dyspepsia, hemorrhoids, infantile spasms, insecticide, vermicide.

<i>Dianthus barbatus</i> L. var. asiaticus Nakai <i>D. superbus</i> <i>D. oreadum</i> Hance	Qu Mai (Carnation)	(aerial part) Dianthus saponin, essential oils, eugenol. ³³	Antipyretic, diuretic. Treat urinary tract infections, relieve strangury.
<i>Dichroa cyanitis</i> Miq. <i>D. febrifuga</i> Lour. <i>D. latifolia</i> Miq.	Chang Shan (Chinese quinine, fever flower)	(root) Dichroines, dichroidine, 4-quinazalone, dichrins. ³³ This herb is toxic.	Antiamebial, antipyretic, for use against chicken malaria.
<i>Dicranopteris linearis</i> (Burm. f.) Under.	Mang Ji	(leaf, stem) Quercitrin, afzelin, nonacosane, heptacosane, nonacosan-10-one, nonacosan-10-ol. ⁵⁴	Anthelmintic, a poultice for fever, improve blood circulation, diuretic.
<i>Dictamnus albus</i> L. subsp. dasycarpus (Turcz.) Winter <i>D. dasycarpus</i> Turcz.	Bai Xian Pi (Fraxinella)	(root bark) Dictamnine, skimmianine, saponins, preskinnianine, choline, fragarine, aurapten, bergapten, isomaculosindine, limonin, obakinone, fraxinellone, psoralen, trigonelline. ^{50,60}	Antifungal, antipyretic, antiseptic, antitussive, sedative, emmenagogue, tonic.
<i>Digitalia purpurea</i> L. <i>D. sanguinalis</i> (L.) Scop. <i>D. sanguinalis</i> (L.) Scop. var. ciliaris (Retz.) Parl.	Mao Di Huang (Foxglove)	(whole plant) Digitoxigenin, gitoxigenin, gitanin, gitaloxigenin, digitoxin, gitoxin, gitaloxin, digicoside, strospeptide, digipurin, digicirin, digifolein, digitonin, purpureal glycosides. ⁶⁰	For gonorrhea, scleroses of the breast.
<i>Dioscorea batatas</i> Decaisue	Shu Yu (Yam)	(root) Allantoin, arginine, d-abscisin, mannan, phytic acid, diosgenin, protein, glycosides, triterpene glucosides. ^{48,461,462}	Antitumor, sore throat, swelling, food poisoning, goiter, hernia, purulent inflammations.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Dioscorea bulbifera</i> L.	Huang Yao Zi (Potato yam)	(rhizome) Saponins, dioscorecin, iodine, dioscoretoxin, saponins, diosgenin, diosbulbin, tannins, campesterol, beta-sotpsterols, stigmasterol, diosbulbines. ^{33,48}	Treat cancer, goiter.
<i>Dioscorea cirrhosa</i> L. <i>D. hispida</i> Dennst. <i>D. japonica</i> Thunb.	Shu Liang (Dyeing yam)	(tuber) Tannins, mucus. ³³	Hemostatic, increases platelet aggregation, increases uterine contraction.
<i>Dioscorea nipponica</i> Makino	Chuan Shan Long (Japanese yam)	(root) Dioscin, diosgenin, trillin, 25-D-spirosta-3,5-diene. ^{33,53}	Anti-inflammatory, antitussive, expectorant, antiasthmatic.
<i>Dioscorea opposita</i> Thunb.	Shan Yao (Chinese yam)	(leaf, tuber, root) Allantoin, arginine, choline, glutamine, leucine, tyrosine, diosgenin, sinodiosgenin. ⁵⁰	Leaf juice for snakebite, root for asthma, cachexia, cough, debility, diarrhea, neurasthenia, polyuria, tuber is anthelmintic.
<i>Diospyros chinensis</i> Blume <i>D. costata</i> Carr. <i>D. kaki</i> L. <i>D. lotus</i> L. <i>D. roxburgii</i> Carr.	Shi Zi (Varnish persimmon, date plum)	(stem bark, fruit) Betulinic acid, acetylcholine, choline, shibuol. ⁵⁰	Astringent, stomachic, treat diarrhea, enterorrhagia, hemorrhoids, antifebrile, antivinous, demulcent.
<i>Dipsacus asper</i> Wall.	Xu Duan (Teazel)	(root) Essential oil, alkaloid lamine. ⁵⁰	Increase the leukocyte count, prevent spontaneous abortion.
<i>Dodonaea viscosa</i> (L.) Jacquin	Che Sang Zi	(leaf, bark) Alkaloid, glucoside, tannins, resins. ⁶⁰	Remedy for fever, astringent to treat eczema.

<i>Dolichos lablab</i> L.	Bai Ben Dou (Hyacinth bean)	(flower, seed) Glucokinin, plant insulin, tryptophane, arginine, lysine, tyrosine. ⁶²	Treat menorrhagia, leucorrhea, metritis.
<i>Draba nemorosa</i> L.	Ting Li Zi	(fruit stalk, seed) Allyl sinapic oil. ⁶⁰	As an expectorant, diuretic in chronic trachitis, asthma, pleurisy, hydrothorax.
<i>Draceana graminifolia</i> L. (Syn. <i>Liriope spicata</i>)	Mo Men Dong	(rhizome) Mucilage, dracorubin, dracorhodin, nordracorubin. ^{49,53}	Antitussive, expectorant, emollient.
<i>Dracocephalum integrifolium</i> L.	Quao Ye Ging Lan	(aerial plant) Essential oil, flavone glucoside. ³³	Antitussive, antiasthmatic, antiphlogistic, antibacterial.
<i>Drosera anglica</i> Hudson <i>D. burmanni</i> Vahl. <i>D. rotundifolia</i> L.	Mao Gao Cai (Sundew)	(whole plant) Citric acid, malic acid. ⁵⁷	Treat dysentery, scrofula, and malaria.
<i>Dryobalanops aromatica</i> Gaertn. <i>D. camphora</i> Colebr.	Loan Now Xiang (Borneo camphor)	(kernel of the fruit) Borneol, camphene, terpineol, sesquiterpene. ⁶⁰ This herb is toxic.	A tonic and aphrodisiac, cataracts, reduce swelling. Externally for mucous membrane of the nose, eye, throat, and on piles.
<i>Dryopteris crassirhizoma</i> Nakai	Guan Zhong	(rhizome) Filmarone, filicic acid, diplotene, albaspididin, flavaspidin, fernene, dryocrassin. ³³	Anthelmintic, an insecticide, antitumor.
<i>Dryopteris laeta</i> (Kom.) Christ. <i>D. filix-mas</i> (L.) Schott.	Mian Ma Guan Zhong	(rhizome) Dryocrassin, filicic acid, filicin, paraaspidin, deaspidin, albaspidin, oleoresin, filmarone, flavaspidic acid, resin, diploptene. ^{50,53,60}	Anthelmintic to treat tapeworm, hemorrhage, hookworm, influenza. Externally treat leucoderma,

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Duchesnea indica</i> (Andr.) Focke.	She Mei (Mock strawberry)	(whole plant) Emodin, chrysophanic acid, phytosterol, volatile oil, calcium. ⁶⁰	Insecticide, antidote, treat whitlow, burns, snakebite.
<i>Dysosma pleiantha</i> (Hance) Woodson	Pa Jiao Lian	(rhizome) Podophyllotoxin, astragalin, peltatin, etoposide, hyperin, deoxypodophyllotoxin. ³³	Treat condyloma acuminata, exophytic warts.
<i>Echinops dahuricus</i> Fisch. <i>E. gmelini</i> Ledeb. <i>E. grijsii</i> Hance <i>E. latifollus</i> Tausch. <i>E. sphacrocephalus</i> Miq.	Lou Lu (Globe thistle)	(root, flower stalk) Echinopsine. ⁴⁸	Anthelmintic, galactagogue, depurative, treat tumors, swellings, leucorrhea, and gout.
<i>Eclipta alba</i> Hassk. <i>E. marginata</i> Boiss. <i>E. prostrata</i> (L.) L. <i>E. thermalis</i> Bunge.	Fang Kui (Pink plant)	(aerial part) Alkaloids, nicotine, ecliptine. ⁶⁰	Leaves heated or crushed in oil are applied to keep the hair black and to encourage its growth. Astringent, hemostatic, tonic.
<i>Eclipta erecta</i> L.	Mo Han Lian (Eclipta)	(aerial part) Essential oils, tannic acid, saponin, wedolactone, nicotine, ecliptine, demethylwedolactone, alpha- tertiary methanol, stigmasterol, beta-amyrin. ^{33,450}	Hemostatic effect, antimytotoxic, antihemorrhagic.
<i>Elaeagnus formosana</i> Nakai	Tiawan Hu Tin Chi	(root) ⁵⁶ No information is available in the literature.	For arthritis pain, throat swelling, cough, bleeding, menses, stomachache.

<i>Elaeagnus glabra</i> Thunb.	Teng Hu Tin Chi (<i>Elaeagnus</i>)	(leaf, bark) Flavonoids, epigallocatechin, amino acids. ⁵⁶	Antifungal, antibacterial properties, relieve pain swelling, treat hepatitis, gastritis.
<i>Elaeagnus oldhumii</i> Maixmowicz	Yi Wu	(root) Sitosterol, muslinic acid, sitosteryl glucopyranosid, arjunolic acid. ⁵⁶	Treat arthritis pain, asthma.
<i>Elaeagnus pungens</i> Thunb. <i>E. umbellata</i> Thunb.	Hu Tin Chi	(root, leaf, fruit) Harman, tetrahydroharman, dihydroharman, 2-methyl-1,2,3, 4-tetrahydro- β -carboline, caffeic acid, chlorogenic acid, catechin, neochlorogenic acid, epicatechin. ⁴⁸	Treat coughs, watery diarrhea, an astringent in hemoptysis.
<i>Elephantopus elatus</i> L. <i>E. grandiflorus</i> Smith	Di Dan Tou	(leaf) Elaeocarpid, saponin. ⁶⁰ This herb is toxic.	Treat billious attacks, staphylococcus.
<i>Elephantopus molis</i> H. B. K.	Mao Liang Cai (Hairy elephant's foot)	(whole plant) Elephantin, deoxyelephantopin, isodexyelephantopin, elephantopin, molephantin, motephantinin, phantomolin, dotriacontanol, epifriedelinol, lupeol, lupeol acetate. ⁵⁸	A tonic, diuretic, treat swellings, diarrhea.
<i>Elephantopus scaber</i> L.	Tian Ja Cai (Rough elephant's foot)	(whole plant) A bitter principle, a glycosidic compound. ^{50,52}	Diuretic, tonic, vermifuge, for diarrhea, dysentery, leucorrhea.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Elettaria cardamomum</i> Maton.	Yi Zhi Zi (Cluster cardamom)	(seed) Phytosterol, palmitic acid, oleic acid, linoleic acid, p-cymene, camphene, d-limonene, myrcene, alpha-phellandrene, pinene, sabinene, terpinene, thujone, cineole, camphorm citral, linalol, citronellal, dl-borneol, citronellol, geraniol, terpineol, sabinene. ⁵⁰	Carminative, emmenagogue, stimulant, stomachic, tonic. Treat ague, cachexia, dyspepsis, enuresis, gastralgia, nausea, spermatorrhea.
<i>Eleutherococcus senticosus</i> (Rupr. ex Maxim.) Maxim.	Ci Wu Jia (Siberian ginseng)	(bark, root) Eleutherosides, beta-sitosterol glucoside, l-sesamen, syringareinol. ^{7,33}	Central nervous system activating and antistress action.
<i>Elsholtzia argyi</i> Lev. <i>E. cristata</i> Willd. <i>E. feddei</i> Lev. <i>E. souliei</i> Lev. <i>E. splendens</i> Nakai	Xiang Xu (Aromatic madder)	(whole plant) Essential oils, elsholtzia ketone, elsholtzianic acid, furylmethyl ketone, furylpropyl ketone, furylisobutyl ketone, furane, pinene, terpene. ⁴⁹	Stomachic, carminative, diuretic.
<i>Emilia sonchifolia</i> (L.) DC	Zi Bei Cao (Red tasselflower)	(leaf) Alkaloids. ⁶³	For dysentery, phthisis, coughs, a detoxicant, diuretic, febrifuge.
<i>Entada phaseoloides</i> (L.) Merrill.	Guo Gang Long	(stem) Entagetic acid. ³³	Antirheumatic, promote collateral flow, relieve blood stasis.

<i>Ephedra distachya</i> L. <i>E. equisetina</i> Bunge. <i>E. intermedia</i> Schrenk ex Mey. <i>E. monosperma</i> Gmel. ex. Mey. <i>E. sinica</i> Stapf.	Ma Huang (Ma Huang)	(aerial part) l-ephedrine, l-methylephedrine, l-norephedrine, methylephedrine, d-pseudoephedrine, ephedrine, d-N-methylpseudoephedrine, norpseudoephedrine. ^{30,31,33,352,510} This herb is toxic.	Treat asthma, sympathomimetic action, relieve headache, body ache and coughing, lower fever by increasing perspiration.
<i>Epidendrum monile</i> Thunb.	Shi Dou	See <i>Dendrobium nobile</i>	
<i>Epidendrum striatum</i> Thunb, <i>E. tuberosum</i> Lour.	Bai Ji	See <i>Bletilla hyacinthina</i>	
<i>Epilobium amurense</i> Haussku. <i>E. hirsutum</i> L. <i>E. palustre</i> L. <i>E. tanguticum</i> (L.) Hausskn.	Liu Ye Cai	(hair of the seed, shoot) Anthocyanin. ^{50,358}	A tonic, galactagogue, stomachache, dropsy. Seed hairs are applied as a styptic.
<i>Epimedium brevicorum</i> Maxim. <i>E. koreanum</i> Nakai <i>E. macranthum</i> Moore et Decne.	Jin Yang Huo	(aerial part) Icarlin, noricariin, korepimidoside A, korepimidoside B, icariine, des-O-methyl-licariine, magnoflorine, epimidoside A, polysaccharides. ^{33,48}	Dilate the coronary vessels and increase the coronary flow by reducing vascular resistance.
<i>Equisetum arvense</i> L. <i>E. hyemale</i> L. <i>E. ramosissimum</i> Desf.	Mo Ja Chao (Horsetail)	(whole plant) Equisetonin, equisetin, articulain, isoquereitrin, galuteolin, populnin, kaempferol-3,7-diglucoside, astragalin, palustrine, gossypitrin, 3-methoxypyridine, herbacetin. ⁴⁸	Antihemorrhagic, anodyne, carminative, diaphoretic, diuretic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Erigeron canadensis</i> L. <i>E. annuus</i> (L.) Persoon	Canada Pon Yi Nian Pon (Fleabane)	(leaf) Essential oils, gallic acid, tannic acid, limonene, dipentene, methylacetic acid, terpeneol, lacnophyllum, matricaria, dehydromatricaria, erigeron, hexahydromatricaria. ⁵⁰	For hemorrhage, diarrhea, dysentery, internal hemorrhage of typhoid fever.
<i>Eriobotrya japonica</i> Linkdl.	Pi Pa Yie (Loquat)	(leaf, flower, fruit) Levulose, sucrose, malic acid, citric acid, tartaric acid, succinic acid, amygdalin, crytoxanthin, carotenes, phenyl ethyl alcohol pentosans, essential oils. ⁵⁰	Antitussive, expectorant, treat bronchitis, cough, fever, nausea, externally applied to epistaxis, smallpox, ulcers.
<i>Eriocaulon sieboldianum</i> Stend. <i>E. buegerianum</i> Koern.	Ke Jing Cao	(whole plant) ⁵⁰ No information is available in the literature.	Antiphlogistic, diuretic, febrifuge, ophthalmic.
<i>Erycibe henryi</i> Prain <i>E. aenea</i> Prain	Ding Gong Teng	(leaf, stem, root) Scopoline, erycbelline, scopoletin, ⁵⁶	Leaf poultices applied to sores and to the head to treat headache, treat arthritis, swelling, pain.
<i>Erysimum amurense</i> Kitag. var. <i>bungei</i> (Kitag.) Kitag. <i>E. cheiranthoides</i> L.	Tang Jie	(Root, leaf, shoot) Erysimoside, erysimosol, erucic acid, canescein, erychroside, helveticosol, erythriside, corchoroside A, erysimotoxin. ^{35,48}	Treat cold and cold-related infections, sore throat, dizziness.
<i>Erythrina corallodendron</i> L. <i>E. indica</i> Lam. <i>E. variegata</i> L.	San Hu Ci Tong Hai Tong Pi (Indian coral tree)	(leaf, stem bark) Alkaloids. ⁵⁰ This herb is toxic.	Anthelmintic, antisyphilitic, laxative, analgesic in arthritis, neuralgia, rheumatism.

<i>Erythroxylum coca</i> Lam.	Guo Ko Yi	(leaf) l-cocaine, cinnamylococaine, alpha-trevilline, beta-trevilline, ecgonine, benzoylecgonine. ³³	For local anesthetic, has vasoconstriction effect.
<i>Eucalyptus robusta</i> Sm.	Da Ye An (Swamp mahogany)	(leaf) Essential oils, cineol, thymol, gallic acid. ³³	Antibacterial, antimalarial. Externally treat <i>Trichomonas</i> <i>vaginalis</i> .
<i>Euchresta japonicum</i> Benth.	Shan Duo Gen	(stem) ⁵⁰ Lupin alkaloid, (+)-5, 17-dehydromatrine N-oxide, (-)-12-cytisineacetic acid, euchrestaflavanones. ^{199,200,201}	A disinfectant, for asthma, bronchitis, cancer, congestion, fever, snakebite, aphrodisiac.
<i>Eucommia ulmoides</i> D. Oliver	Du Zhong	(bark) Pinoresinol-di-β-D-glucoside, resin, aucubin, ajugoside, reptoside, harpagide acetate, encommiol. ³³	Improve liver and kidney function, lower blood pressure.
<i>Eugenia aromatica</i> Baill. <i>E. caryophyllata</i> (L.) Thunb. <i>E. ulmoides</i> Oliv.	Ding Xian (Clove tree)	(flower bud) Rhamnetin, eugenitin, kaempferol, oleanolic acid, isoeugenitin. Bark: ellagic acid, beta-sitosterol, mairin. Essential oil: ugenol, humulene, acetylugenol, chavicol, alpha- caryophylline, beta-caryophylline, ylangene. ³³	Stimulate gastric secretions, increase in digestion and a dispelling of gases. Antibacterial, antifungal.
<i>Euonymus alatus</i> (Thunb.) Sieb. <i>E. alatus</i> (Thunb.) Sieb. var. apterus Regel <i>E. bungeanus</i> Maxim. <i>E. maackii</i> Rupr.	Wei Mao (Thimble tree)	(young branch, leaf, fruit) Quercetin, dulcete, epifriedelinol, friedelin, fatty acid, alatamine, kaempferol glucosides, wilfordine, resin, sesquiterpene alkaloids. ^{33,337,338,339}	Regulate blood flow, relieve pain, eliminate stagnant blood, treat dysmenorrhea.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Eupatorium chinense</i> L. var. <i>simplicifolium</i> (Malcino) Kitam. <i>E. lindleyanum</i> DC <i>E. japonicum</i> Thunb.	Zi Lan (Thorowort)	(whole plant) Cumarin, O-cumaric acid, lactones, rhymohydroquinone, volatile oil, euparin, bornyl acetate, dimethyl thymohydroquinone, linalool. ⁴⁸	Sedative in disturbances of pregnancy and puerperium. Carminative, diuretic, vermifuge.
<i>Eupatorium formosanum</i> L.	Taiwan Pai Lan	(whole plant) Sesquiterpine lactones, eupatolide, eupaformonin, eupaformosanin, michelenolide, costunolide, parthenolide, santamarine. ^{33,501}	Anticancer.
<i>Eupatorium odoratum</i> L.	Pei Lan	(seed) Eupatol, lupeol, beta-amyrin, salvigenin, isosakuranetin, odoratin, aromatic acids, anisic acid. ⁵⁰	Anodyne, hemostat, spasmolytic, vermifuge.
<i>Euphorbia antiquorum</i> L.	Huo Yu Jin (Fleshy spurge)	(whole plant) Friedelaun-3-ol, alpha-taraxerol, beta-amyrin, cycloarternol, euphol, alpha-euphorbol. ³³	Diuretic.
<i>Euphorbia coraroides</i> Thunb. <i>E. lasiocaula</i> Boiss. <i>E. lunulata</i> Bunge. <i>E. pallasii</i> Turcz. <i>E. pekinensis</i> Rupr. <i>E. sampsoni</i> Hance <i>E. sieboldiana</i> Moore et Decne.	Da Ji (Peking spurge)	(root) Euphorbon, euphorbias, butyric acid, calcium malate, calcium oxalate, vitamin C. ^{48,50}	Diuretic, emetic, emmenagogue, purgative.

<i>Euphorbia esula</i> L. <i>E. helioscopia</i> L.	Ze Qi or Di Jin Cao (Spurge)	(whole plant) Phasin, tithymalin, helioscopiol, butyric acid, euphorbine, phasine, saponin. ^{33,50}	Diuretic, febrifuge, vermifuge.
<i>Euphorbia hirta</i> L.	Da Fei Yang Cao (Asthma herb)	(stem) Camphol, leucocyanidol, quercitol, quercitrin, rhamnose, euphorbon, chlorophenolic acid, taraxerol, taraxerone, gallic acid. ⁵⁰	For asthma, bronchitis, externally for athlete's foot.
<i>Euphorbia humifusa</i> Willd.	Deng Qing Cao (Wolf's milk)	(aerial part) Camphol, euphorbon, gallic acid. ⁴⁸	Antibacterial, detoxicant against diphtheria toxin.
<i>Euphorbia kansui</i> Lion.	Qian Jin Zi, Gan Suei	(root) Alpha-euphol, tirucallol, alpha- euphorbol, kansuine. ^{33,144} This herb is very toxic.	Diuretic, expectorant, for ascites, constipation, dysuria, hydrothorax.
<i>Euphorbia lathyris</i> L. <i>E. lucorum</i> Rupr. <i>E. resinifera</i> Berger <i>E. thymifolia</i> L.	Xu Sui Zi Da Ji Ru Zi Shu Xiao Fei Yang Cao (Caper spurge, petroleum plant)	(seed) Euphorbiasteroid, betulin, 7-hydroxylathyril, lathyril diacetate benzoate, lathyril diacetate nicotinate, euphol, euphorbol, euphorbetin, esculetin, daphnetin. ^{33,53,144} This herb is very toxic.	Diuretic to remove edema, eliminate blood stasis and resolve masses, antitumor.
<i>Euryale ferox</i> Salisb.	Qian Shi (Water lily)	(seed) Protein, starch. ⁵³	Treat diarrhea, spontaneous emission, and leucorrhagia.
<i>Evodia lepta</i> (Spreng.) Merrill. <i>E. triphylla</i> DC	San Ya Ko	(root, leaf) Amino acids. ⁵⁵	For arthritis, chickenpox, fever, hemorrhoids, itch, infectious hepatitis.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Evodia rutaecarpa</i> (Juss.) Berth	Wu Zhu Yu (Evodia)	(fruit) Alkyl methyl quinolone alkaloids, evodiamine, limonin, evocarpine, rutaecarpine, N-methyl anthranilic acid, evodol, hydroxyevodiamine, N-methylanthranflamide, N,N-dimethyl-5-methoxytryptamine, dehydroevodiamine. ^{32,33,237}	Antiemetic, analgesic, lower blood pressure, antibacterial.
<i>Evonymus alatus</i> Regel <i>E. subtriflorus</i> Blume <i>E. thunbergianus</i> Blume	Wei Mao	(twig) ⁵⁰ No information is available in the literature.	For analgesic, emmenagogue, purgative in female disorders.
<i>Fagopyrum esculentum</i> Moench. <i>F. cymosum</i> (Trev.) Meisn. <i>F. sagittatum</i> Gilib.	Qiao Mai (Buckwheat)	(seed, leaf, stem) Rutin, quercetin, caffeic acid, rutin, orientin, homoorientin, vitexin, saponaretin, cyanidin, fagopyrin, flavanol, fagomine, alanine, leucoanthocyanin. Seeds contain amylase, linamarase, maltase, phosphatides, protease, quercitol, rhamnose, urease. ^{48,50,421,446,450}	For colic and diarrhea, stop cold sweats, tumor inhibition, treat lung cancer.
<i>Fagopyrum tataricum</i> (L.) Gaertn.	Ku Qiao Mai (India wheat)	(whole plant) Rutin, flavones. ⁴⁸	For stomachache, leg pain, a digestive.
<i>Ferula assa-foetida</i> L. <i>F. bungeana</i> Kitag.	A Wei (Asafetida)	(gum or resin) Vanillin, asarensinotannol, ferulic acid, farnesiferols. ³³	Anthelmintic, treat ascites, dysentery, malaria.
<i>Fibraurea recisa</i> Hance	Huang Teng	(stem) Palmatine, jatrorrhizine, fibramine, fibraminine, fibralactone, sterol. ³³	Antipyretic, detoxicant, treat tonsillitis and pharyngitis.

<i>Ficus awkeotsang</i> Makino	Ai Yu Zi	(root, leaf, stem) Resin, glucose, fructose, gum, protein, fat. ⁵⁵	Treat arthritis, joint discomfort.
<i>Ficus carica</i> L.	Wu Hua Go (Fig)	(leaf, fruit) Bergapten, cerotinic acid, ficusin, glutamine, papain, pepsin, psoralen, guaiaxulene, amyrin, lupeol, retin, octacosane, guaiacol, quercitin, rhamnose, sitosterol, tyrosine, urease. ^{50,55,502}	For stomachache, externally for swollen piles, corns, warts. Fruit is laxative, digestive, anthelmintic, hypolipidaemic, and hypotriglyceridaemic activities
<i>Ficus pumila</i> L. <i>F. inicrocarpa</i> L.	Bi Li Go Rong Shu (Creeping fig)	(whole plant) Latex. ⁵⁰	Carbuncle, dysentery, hematuria, piles, hernia, bladder inflammation.
<i>Firmiana simplex</i> (L.) W. F. Wight	Wu Tong (Chinese parasol tree)	(leaf, seed, bark, root) Betaine, choline, beta-amyrin, beta-amyrin acetate, rutin, lupenone, heutriacontane, octacosanol, beta-sitosterol. ³³	Detoxicant, smooth lung function, increase appetite.
<i>Flagellaria indica</i> L.	India Bian Teng	(leaf, fruit) Alkaloidal substances, cyanogetic glycosides, emilsin-like enzyme. ⁶⁰	Astringent, vulnerary, diuretic, treat pox.
<i>Foeniculum officinale</i> All. <i>F. vulgare</i> Mill.	Xiao Hui Xiang (Fennel)	(fruit) Anethol, d-fenchone, anisaldehyde, methylchavicol. ³³	Restore normal functioning of the stomach.
<i>Forsythia suspensa</i> (Thunb.) Vahl.	Lian Qiao (Forsythia)	(leaf, fruit, root) Phillyrin, rutin, taraxasteryl palmitate and acetate, bigelovin, dihydrobigelovin. ^{50,260}	Febrifuge, for cancer, carbuncle, chickenpox, antiphlogistic, diuretic, emmenagogue, antiemetic, laxative, antipyretic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Fortunella crassifolia</i> Swingle <i>F. japonica</i> (Thunb.) Swin. <i>F. margarita</i> (Lour.) Swin.	Jin Gan Yuan Jin Gan Jin Ju (Kumquat)	(whole plant) Glucosides, galactose, essential oil, pentosane, vitamin C. ⁶⁰	Antiphlogistic, antivenous, carminative, deodorizing, stimulant.
<i>Fragaria indica</i> Andr.	She Mei (Mock strawberry)	See <i>Duchesnea indica</i>	
<i>Fraxinella dictamnus</i> Moench	Bai Xian Pi	See <i>Dictamnus albus</i>	
<i>Fraxinus bungeana</i> DC <i>F. chinensis</i> Roxb. <i>F. floribunda</i> Bunge. <i>F. obovata</i> Blume <i>F. ornus</i> L. var. <i>bungeana</i> Hance <i>F. rhynchophylla</i> Hance	Zhen Pi (Chinese ash)	(bark) Fraxin, aesculin. ³³ This herb is toxic.	Antibacterial, analgesic, anti-inflammatory.
<i>Fritillaria anheunensis</i> Chen et Yin <i>F. collicola</i> Hance <i>F. maximowiczii</i> Freyn <i>F. roylei</i> Hook <i>F. thunbergii</i> Miq. <i>F. ussuriensis</i> Maxim. <i>F. verticillata</i> Willd.	Bei Mu (Fritillaria)	(bulb) Fritilline, fritillarine, verticine, verticinine, peimine, peiminine, peimisine, peiniphine, peimidine, peimilidine, propeimin, puqiedinone, isosteroidal alkaloids. ^{33,243,503}	Causes bronchodilatation and inhibition of mucosal secretions. Antitussive, stimulate uterine and intestinal contractions.
<i>Galium bungei</i> Stead. <i>G. spurium</i> L. <i>G. verum</i> L. var. <i>leiocarpum</i> Ledeb. <i>G. verum</i> L. var. <i>trachycarpum</i> DC	Si Ye Lu Zhu Yin Yin Peng Zi Cao (Bedstraw)	(rhizome) Alisarin, rubrierythrinic acid, purpurin. ⁶⁰	Treat rheumatism, jaundice, menstrual difficulties, epistaxis, hemorrhages.

<i>Ganoderma lucidum</i> (Polyporaceae)	Ling Zhi	(whole body) Ergosterol, fungal lysozyme, amino acids, proteinase, organic acids, polysaccharides, adenosine, triterpenoids. ^{33,41,403,404,407}	Improve immune system, reduce cholesterol, treat blood pressure, prevent blood clot, regulate blood circulation, antitumor, antiviral. Treat hepatitis, hyperlipemia, angina pectoris, chronic bronchitis, leucopenia.
<i>Gardenia angusta</i> (L.) Merrill. <i>G. jasminoides</i> Ellis.	Shan Zhi (Cape jasmine)	(fruit, flower, bark) Gardenin, alpha-crocin, volatile oil, chlorogenin, glycosides, mannitol. ⁶⁴	Emetic, stimulant, febrifuge, diuretic, hemostatic, antihemorrhagic, emmenagogue.
<i>Gardenia florida</i> L. <i>G. grandiflora</i> Sieb. et Zucc. <i>G. marubia</i> Sieb. <i>G. pictorum</i> Hassk. <i>G. radicans</i> Thunb.	Zhi or Zhi Zi (Gardenia)	(fruit) Gardenoside, shanzhiside, cardoside. ³³	Antipyretic, choleric, sedative, hypnotic, anticonvulsant, antibacterial, anthelmintic properties.
<i>Gastrodia elata</i> Blume <i>G. elata</i> Blume f. <i>pallens</i> (Kitag.) Tuyama	Tian Ma	(root) Vanillyl alcohol, vanillin, vitamin A, gastrodin. ³³	Anticonvulsive, sedative, analgesic effect.
<i>Gaultheria leucocarpa</i> f. var. <i>cumingiana</i> (Vidal) Sleumer	Bai Zhu Shu	(leaf) Methylsalicylate, salicylic acid. ⁶⁰	Treat rheumatism, an antiseptic.
<i>Gelidium amansii</i> (Lamx.)	Qiong Zhi	(isolated mucous substance) Agarose, agaropectin, taurine. ³³	A mild laxative in the treatment of chronic constipation.
<i>Gelsemium sempervirens</i> (L.) Ait. <i>G. elegans</i> Benth.	Gou Min (Jessamine)	(root, stem) Gelsemine, gelsemidine, koumine, sempervirine, kouminine, kouminicine, doudinidine. This herb is highly toxic. ^{33,46,50}	For caked breast, perspiring feet, skin eruptions, wounds.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Gentiana algida</i> Pall. <i>G. barbata</i> Froel. <i>G. manshurica</i> Kitag. <i>G. olivieri</i> DC <i>G. scabra</i> Bunge. <i>G. squarrosa</i> Ledeb. <i>G. triflora</i> Pall.	Long Dan (Gentian)	(root) Gentiopicroin (or gentiopicroside), indoid compounds such as geniposide and gardenoside. Saponins, gentianine. ^{16,17,33}	For arthritis, cancer, carbuncle, cold, conjunctivitis, diarrhea, gastritis, neuralgia.
<i>Gentiana dahurica</i> Fisch. <i>G. lutea</i> L. <i>G. macrophylla</i> Pall.	Jue Chuang (Gentian)	(root) Gentianine, gentianidine, gentianol. ³³	Treat rheumatism and fever, antipyretic, anti-inflammatory, antihypersensitivity and antihistaminic effects.
<i>Geranium dahuricum</i> DC <i>G. eriostemon</i> Fisch. ex DC <i>G. eriostemon</i> Fisch. ex DC f. hypoleucum (Nakai) Y. C. Chu <i>G. eriostemon</i> Fisch. ex DC f. megalanthum (Nakai) Y. C. Chu <i>G. sibiricum</i> L. <i>G. wilfordi</i> Maxim. <i>G. wlassowianum</i> Fisch. ex Link	Lao Huan Cao (Geranium)	(aerial part) Kaempferitrin, gallic acid, quercetin, succinic acid, tannins. ^{48,50,65}	Astringent, for diarrhea, endometritis, nervous diseases, numbness of limbs, pains, rheumatism. It helps circulation and strengthens bones and tendons.
<i>Geum aleppicum</i> Jacquin <i>G. aleppicum</i> Jacquin f. glabricaule (Juzepczuk) Kitag.	Shui Yang Mei (Avens)	(whole plant) Flavones, fatty acids, eugenol, gein, geoside. ⁴⁸	Treat bleeding, bug bite, convulsive disorder, fevers, irritability, obstinate skin diseases.

<i>Ginkgo biloba</i> L.	Yin Xing (Ginkgo)	(leaf, seed kernel) Kaempferol-3-rhamnoglucoside, gibberellin, cytokinin, ginkgolic acid, ginkgol, bilobal, ginnol, rutin, ginkgolides, quercetin, quercitrin, ginkgetin, isoginkgetine, bilobetin, isorhamnetin, shikimic acid, D-glucaric acid, anacardic acid, sesquiterpene, diterpenes, beta-sterol. ^{33,48,422,450,510}	Antitussive, antiasthmatic, anodyne, treat coronary artery disease, angina pectoris, hypercholesterolemia, Parkinson's disease, inhibit the growth of human cancer cell lines.
<i>Glechoma hederacea</i> L. var. <i>grandis</i> (A. Gray) Kudo <i>G. longituba</i> (Nakai) Kuprijan.	Jin Qian Cao (Ground ivy)	(aerial part) l-pinocamphone, l-menthone, isomenthone, l-pulegone, alpha-pinene, beta-pinene, 1,8-cineol, isopinocamphone, limonene, menthol, alpha-terpineol, linalool, p-cymene. ⁴⁸	Febrifuge, anodyne, treat earache, fever, toothache, diuretic, decoagulant, arthritis.
<i>Gleditsia horrida</i> Willd. <i>G. sinensis</i> Lam. <i>G. xylocarpa</i> Hance	Zao Ci (Chinese honey locust)	(leaf, fruit, seed) Saponin, arabinon, gleditsin, fisetin, fustin. ⁵⁰	Anthelmintic, febrifuge, treat cough, dysentery, flatulence, rectal prolapse, stroke, throat numbness, tetanus, emetic.
<i>Glehnia littoralis</i> F. Schmidt et Miq.	Bei Za Seng (Beech silver-top)	(leaf, root) Stigmasterol, beta-sitosterol, imperatorin, psoralen, osthonol-7-o- β -gentiobioside, petroselenic acid, petroselinic acid, polyine, polysaccharides, falcilindiol, anthocyanin, furanocoumarin. ^{53,84,477,478,479,480,383,384}	Anthelmintic, for chronic bronchitis, cough and hoarseness, antiproliferative activities, antimycobacterial, immunosuppressive activities.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Glycine max</i> (L.) Merrill <i>G. soja</i> Sieb. & Zucc.	Da Dou Ye Da Dou (Soybean)	(seed) Protein, isoflavone derivatives, genisteine, daidzein, riboflavin, thiamine, niacin, pantothenic acid, choline. ^{33,67}	Phytoestrogenic, elevate the vasomotor system, prevent cancer, a potent inhibitor of protein tyrosine kinase.
<i>Glycosmis cochinchinensis</i> Pierre <i>G. pentaphylla</i> (Retz.) Correa.	Xiao Shan Ju	(leaf, root) Glycosmine, skimmianine, glycosminine, glycosine. ⁶⁶	Treat coughs, inflammation. An appetite enhancer.
<i>Glycyrrhiza pallidiflora</i> Maxim. <i>G. uralensis</i> Fisch. ex DC	Gan Cao (Licorice)	(outer cortex of root) Glycyrrhiza, triterpenoid saponin, flavonone glucoside, liquiritin, aglycone, liquiritigenin, chalcone glucose, isoliquiritin, aglycone, isoliquiritigenin, glycyrrhizic acid, beta-glycyrrhetinic acid. ^{1,33,355,356,510}	Anti-inflammatory, anticonvulsant, carminative, antidote, antitumor, antispasmodic, antiulcer.
<i>Gnaphalium affine</i> L. <i>G. arenarium</i> Thunb. <i>G. confusum</i> DC <i>G. javanum</i> DC <i>G. luteo-album</i> L. var. <i>multiceps</i> Hook <i>G. multiceps</i> Wall. <i>G. ramigerum</i> DC <i>G. tranzschelii</i> Kirpicznikov <i>G. uliginosum</i> L.	Shu Qu Cao (Cudweed)	(whole plant) Fat, resin, phytosterol, essential oils, carotene, vitamin B ₁ . ^{48,49,50,449}	Remedy for lung disease, antifebrile, antimalarial, reduce blood pressure and stomach and intestinal ulcers. Externally for wounds, against cancer.

<i>Gomphrena globosa</i> L.	Qian Ri Hong (Globe amaranth)	(flower) Saponins, betacyamines, gomphrenin, amaranthin, isoamaranthin. ³³	Treat chronic bronchitis, whooping cough.
<i>Gossypium herbaceum</i> L.	Mian Zi Soo or Mian Hua Gen (Cotton)	(root) Gossypol, hemigossypol, 6,6'-dimethoxylgossypol, aflatoxin B (in seed), methoxylhemigosipol, acetovanillone, hirsutrin (in leaf). ³³	Antitussive, treat bronchitis.
<i>Gynostemma pentaphyllum</i> (Thunb.) Makino	Joe Koo Lan	(root) Panaxatriol, panaxadiol, saponin, glypenosides, sterol. ^{33,34,349,350,351}	Regulating effect on lymphocyte transformation, protective effect against myocardial and cerebral ischemia, relax isochemic heart ventricles.
<i>Gynura bicolor</i> DC	Mu Er Cao (Velvet plant)	(whole plant) Flavonoids. ⁵⁴	Improve blood circulation, stop bleeding, a detoxicant, relieve swelling, cough with blood.
<i>Gynura japonica</i> Mak. <i>G. pinnatifida</i> Vanniot <i>G. segetum</i> Merr.	San Qi (Canton tusanchi)	(root, leaf) Saponins. ⁴⁹	Hemostat, furnculosis, hemorrhage, hemorhea. Exter- nally for bruises and wounds, insect bites, snakebites
<i>Haemanthus multiflorus</i> Mart. ex Willd.	Huo Qin Hua	(bulb) Haementhamine, haemanthidien. ⁵⁷ This herb is toxic.	Detoxicant, relieve swelling.
<i>Hedera rhombea</i> (Miq.) Bean <i>H. helix</i> L.	Chang Chun Ton	(leaf) Hederin, hederic acid, tannic acid, oleic acid. ⁵⁰	For cough, headache, diaphoretic, emmenagogue.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Hedychium coronarium</i> Koen.	Shan Ren (Ginger lily)	(flower, rhizome) Sesquiterpenes, phenols, aldehyde, ketone, 1,8-cineole, camphene, beta-pinene. ^{60,195}	Stimulant.
<i>Hedyotis corymbosa</i> (L.) Lamarck.	Shui Xian Cao	(seed) Borneol, bornyl acetate, l-camphor, linalool, nerolidol. ⁴⁹	Stomachic, mouthwash to relieve toothache, as a poultice to heal wounds, small sores.
<i>Hedyotis diffusa</i> Willd.	Bai Hua She Shi Chao	(leaf) Acyl flavonol di-glycoside, iridoid glucosides, anthraquinone, essential oils, p-vinylphenol, p-vinylguaiaicol, linalool. ^{50,202,203,204,205,206}	Immunopotential activity, treat tumours, antibacterial, antipyretic, detoxicant, diuretic, anticancer, externally applied as lotion.
<i>Hemerocallis flava</i> L.	Huang Hua Xuan Cao (Daylily)	(root) Protoveratrine, jervine, pseudojervine. ⁶⁰	Sternutative, anthelmintic, evacuant properties.
<i>Hepatica asiatica</i> Nakai	Xi Shin (Liver leaf)	(root) No information is available in the literature.	Anodyne, antifebrile, for angina and sunstroke, local application in smallpox ulcerations.

<i>Heracleum dissectum</i> Ledeb. <i>H. lanatum</i> Michx.	Niu Fang Feng	(root) Oxalic acids, hydroxycinnamic acids, hydroxybenzoic acids, coumarins, anthocyanidines, anthraquinones, phytosterines, carotenes, ether oils, monoterpene, sesquiterpene glucosides, hydrocyanic acids, xanthotoxin, coumarin, bergapten. ^{222,223,450}	Relieve headache, toothache, hematuria, gonorrhea, itching skin, swelling, remove corns from the feet.
<i>Hibiscus chinensis</i> DC <i>H. rhombifolius</i> Cav. <i>H. syriacus</i> L. <i>H. trionum</i> L.	Mu Jin Chuan Jin Pi (Shrubby althea)	(bark) Saponarin. ³³	Treat dysentery, diarrhea, jaundice, eczema, tinea, and scabies. Antiphlogistic.
<i>Hibiscus mutabilis</i> L.	Fu Rong Yie (Cotton rose)	(leaf, flower) Isoquercitrin, hyperoside, rutin, quercetin-4-glucoside, quercetin, quercimeritrin. ⁵⁰	Applied to swellings, burns, ulcers. Internally lung ailments, cough, dysuria, menorrhagia.
<i>Hibiscus rosa-sinensis</i> L. <i>H. rhombifolius</i> Cav.	Zhu Jin Chuan Jin Pi (Rose of China)	(leaf, flower) Protein, thiamine, riboflavin, niacin, cyanidin-3-sophoroside. ⁵⁰	Used as poultice on cancerous swellings and mumps.
<i>Hibiscus sabdariffa</i> L.	Luo Sheng Kui	(leaf, flower, stem bark) Saponin, saponaretin, vitexin. ⁵⁰	Stomachic, diuretic, expectorant, hematochezia, gas, vertigo.
<i>Hieracium umbellatum</i> L.	Shan Liu Jiu	(whole plant) Vitamin C, tannic acid. ⁴⁸	Relieve pain, bladder infection, diarrhea.
<i>Hierochloe odorata</i> (L.) Beauv.	Mao Xian	(root, flower head) Coumarin, coumarinic acid- β -glucoside. ⁴⁸	Relieve internal bleeding, kidney infection.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Hippeastrum hybridum</i> Hortorum	Shi Suan Hua	(bulb) Lycorine, lycoramine, tazettine, galanthamine. This herb is toxic.	Detoxicant, relieve swelling, induce vomiting.
<i>Hippophae rhamnoides</i> L.	Sha Ji (Sea buckthorn)	(seed, fruit, leaf) Cryptoxanthin, harman, harmol, hemin, isorhamnetin, lycopene, serotonin, isorhamnetin-3-mono-beta-D-glucoside, polyphenols, fatty acids flavonoid, essential oils, tannins, quercitin, vitamin C, vitamin E, beta-carotenoid. ^{50,450}	Improve resistance to infection, skin irritation and eruption, treat heart disease, oil for cosmetic use.
<i>Hordeum vulgare</i> L.	Mai Ya (Barley)	(germinated seed) Enzymes such as invertase, amylase, proteinase, vitamin B, vitamin C, maltose, dextrose. ³³	Improve digestion of carbohydrates and protein.
<i>Houttynia cordata</i> Thunb.	Yu Xing Cao (Fishwort)	(aerial part) Essential oil, houttuynium, decanoylacetalddehyde, quercitrin, isoquercitrin. ³³	Antibacterial, antiviral, analgesic, hemostatic, antitussive.
<i>Hovenia dulcis</i> Thunb.	Zhi Bei Zi (Japanese raisin tree)	(stem bark) Ebelin lactone, hovenosides, potassium malate, potassium nitrate. ^{27,50}	For rectal diseases, constipation, infantile convulsions, antispasmodic, febrifuge.
<i>Hoya carnosa</i> (L. F.) R. Brown	Yu Dei Mei	(leaf) Condurangin, hoyin, phytosterindigitonid. ⁵⁰	To hasten maturation of anthrax and furuncles.

<i>Humulus lupulus</i> L.	She Ma (Hop)	(female flower, unripe fruit) Humulone, resin, lupulone, choline asparaginer, lupulin, isohumulone, isovaleric acid. ^{33,450} This herb is toxic.	Inhibit the growth of tubercle bacillus and arrest tuberculosis.
<i>Humulus scandens</i> (Lour.) Merr.	Lu Cao	(aerial part) Humulone, lupulone, asparagine, choline, luteolin. ³³	Inhibit tubercle bacillus, antipyretic, diuretic.
<i>Hydnocarpus anthelmintica</i> Pierre <i>H. castaneus</i> H. F. & Th.	Da Feng Zi (Krabao oil tree, chaulmoogra)	(seed) Hydnocarpus oil, hydnocarpic acid, chaulmoogric acid, gorlic acid. ³³	Anthelmintic.
<i>Hydrangea macrophylla</i> (Thunb.) Seringe	Xiu Qiu (Sugar-leaf hydrangea, French hydrangea)	(leaf, flower, root) Febrifugin, hydrangeic acid, hydrangenol, rutin. ⁵⁰	Antimalarial, antitussive, diuretic.
<i>Hymenocallis speciosa</i> Salisbury	Shui Gui Jiao	(bulb) Lycorin. ⁶⁰ This herb is toxic.	As a vulnerary.
<i>Hyoscyamus bohemicus</i> F. W. Schmidt <i>H. niger</i> L.	Liang Shi (Henbane)	(root, leaf) Alkaloid, hyoscyamine, hyoscine, scopolomine, hyoscypierin, choline, mucilage, albumin. ^{60,144,450} This herb is toxic.	Antispasmodic activity.
<i>Hypericum attenuatum</i> Choisy <i>H. ascyron</i> L. <i>H. japonicum</i> Thunb. <i>H. perforatum</i> L. <i>H. sumpsonii</i> Hance	Jin Si Tao or Di Er Cao Guan Ye Lean Qiao Tian Bao Cao (St. John's wort)	(whole plant) Quercetin, quercitrin, isoquercitrin, sarolactone, hypericin, usigtoercin, protohypericin, kaempferol. ^{33,53,265,450}	Antipyretic, antibacterial, detoxicant, treat acute icteric hepatitis, lower blood pressure, dysmenorrhea, gonorrhea, skin ailments.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Hypericum triquetrifolium</i> Turra. <i>H. chinensis</i> L.	Jin Ci Tau (St. John's wort)	(whole plant) Hypericin, pseudohypericin, hyperin. ³³	Antidepressant, anti-HIV, anti-tumor.
<i>Hyperzia serrata</i> (Thunb.) Trev.	Shi Shan	(root) Hyperzine A, isovanhyperzine A. ³³	Active cognition enhancer, treat senile dementia including Alzheimer's disease.
<i>Hyssopus ocyimifolius</i> Lam.	Xiang Xu	See <i>Elsholtzia cristata</i>	
<i>Ilex chinensis</i> Sims	Shi Ji Qing (Wintergreen holly)	(leaf) Protocatechuic acid, protocatechuic aldehyde, ursolic acid, tannic acid. ³³	Treat angina pectoris, thrombophlebitis, extremity ulceration.
<i>Ilex pubescens</i> Hook & Am.	Mao Dong Qing (Holly)	(leaf, root) Flavone, ursolic acid, scopoletin, 3,4-dihydroxyacetophenone, hydroquinone, vomifliol. ³³	Treat angina pectoris, acute myocardial infarction, central angiospastic retinitis, cerebral thrombosis, thrombophlebitis.
<i>Illicium verum</i> Hook f.	Ba Jiao Hui Xiang (Star anise)	(fruit) Anethol, anisaldehyde, safrole, anisic ketone. ³³	Capable of warming the viscera and expelling cold.
<i>Illicium lanacedatum</i> A. S. Smith	Hong Hui Xiang Gen (Japanese star anise)	(fruit) Anisatin, neoanisatin, shikimic acid, pseudoanisatin. ³³ This herb is toxic.	
<i>Impatiens balsamina</i> L. <i>I. noli-tangere</i> L. <i>I. textori</i> Miq.	Tou Gu Cao or Feng Xian Hua (Garden balsam)	(whole plant) Gentisic acid, ferulic acid, p-coumaric acid, sinapic acid, caffeic acid, scopoletin, lawsone. ^{33,144} This herb is toxic.	Treat arthritis, relieve pain.

<i>Imperata arundinaceae</i> Cyrill. <i>I. cylindrica</i> Beauv.	Bai Mao (Thatch grass)	(root) Fernenol, arundoin, arborinol, arborinone, glutinol, cylindrin, simiarenol. ³³	Diuretic, hemostatic, antibacterial.
<i>Inula britannica</i> L. <i>I. japonica</i> Thunb. <i>I. linariaefolia</i> Turcz. <i>I. linariaefolia</i> Turcz. f. simplex Kom. <i>I. salsoloides</i> (Turcz.) Ostenfeld	Xuan Fu Hua (Elecampane)	(aerial part, including flower head) Inusterol A, taraxasterol, inusterol B, inulicin, flavone, caffeic acid, chlorogenic acid, isoquercitrin, quercetin, taraxasteryl palmitate, bigelovin, dihydrobigelovin. ^{48,50,260}	Discussant, vulnerary, anti- emetic, carminative, diuretic, deobstruent, treat ascites, bronchitis, cancer, chest congestion.
<i>Iphigenia indica</i> Bak. (Syn. <i>Tulipa edulis</i>)	Shan Ci Kodfghvb	(aerial part) Colchicine, colchicine amide, N-formyl-N-deacetylcolchine, cornigerine, P-lumicolchicine. ⁵⁰	Antitumor activity against hepatoma, lymphosarcoma.
<i>Ipomoea barbata</i> Both. <i>I. caerulea</i> Koeh. <i>I. hederacea</i> Jacq. <i>I. triloba</i> Thunb	Qian Niu (Sweet potato)	See <i>Pharbitis hederacea</i>	
<i>Ipomoea cairica</i> (L.) Sweet	Wu Zhao Jin Long (Cairo morning glory)	(flower) Muricatin A, beta-sitosterol. ⁵⁰	Purgative.
<i>Iris aqyatuca</i> Forskal <i>I. buatatas</i> (L.) Lamarck. <i>I. dichotoma</i> Pallas	Rong Cai Gan Su She Gan (Iris)	(root, whole plant) Tectoridin, iridin, flavone. ⁴⁸	Treat lung diseases, cough, pneumonia, uneasy breathing.
<i>Iris lactea</i> Pall. subsp. chinensis (Fisch.) Kitag.	Wu Gan	(seed, flower, leaf, root) Iridin, irigenin, irisflorentin. ⁶⁰	Astringent, diuretic, hemostatic, remedy for hemorrhage, postpartum difficulties.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Iris pallasii</i> Fisch.	Ma Lan Zi (North China iris)	(seed) Irisquinone. ³³	Treat cancer, hepatoma, lymphatic sarcoma.
<i>Isatis chinensis</i> (Thunb.) Nakai <i>I. chinensis</i> (Thunb.) Nakai var. <i>graminifolia</i> (Ledeb.) H. C. Fu <i>I. tinctoria</i> L.	Ban Lan Gen	(leaf, root) Quercetin, kaempferol, stachyose, manneotetrose, lupeose, cicerose, isatan, indoxyl-5-ketogluconate. ⁵⁰	Antiviral, antibacterial, increase blood flow, improve microcirculation, lower blood pressure.
<i>Isatis indigotica</i> Fortune ex Lindley <i>I. oblongata</i> DC	Da Qing	(leaf) Indican, meoglucobrassicin, isatan B, indigo, glucobrassicin. ³³	Antibacterial, antipyretic, anti-inflammatory, choleric.
<i>Jasminum mesnyi</i> Hance <i>J. nudiflorum</i> Lindley	Ying Chun Hua (Jasmine)	(leaf) Syringin, jasmiflorin, jasmipierin, mannose, tannins. ⁶⁰	Diaphoretic.
<i>Jasminum samba</i> (L.) Aiton	Mo Li Hua (Arabian jasmine)	(flower, root) Formic acid, benzoic acid, acetic acid, anthranil acid, sesquiterpene, sesquijasmine. ⁶⁰ This herb (root) is toxic.	Sedative, anesthetic, vulnerary properties. For congestive headache, lactifuge.
<i>Jatropha gossypifolia</i> L. var. <i>delgans</i> Muel. <i>J. curcas</i> L.	Hong Ma Feng Shu (Sweet cassava)	(seed) Phytotoxin, curcin, curcacin, arachidic, linoleic acid, myristic acid, oleic acid, palmitic acid, stearic acid. ⁵⁰ The herb (seed) is toxic.	Seed oil emetic, laxative, purgative, treat skin ailments.

<i>Jatropha podagrica</i> Hooker	San Hu You Tong	(stem bark) Tetramethylpyrazine, steroids, n-hexacosane, beta-amirine, lupeol palmitate, beta-sitosterol, rutin, flavonoids, quercetin, apigenin, vitexin, isovitexin. ^{57,207,208} This herb is toxic.	Detoxicant, hypotensive, neuromuscular and cardiovascular actions, antibacterial, relieve swelling, pain, externally treat snakebite, infection.
<i>Juglans mandshurica</i> Maxim. <i>J. regia</i> L.	Hu Tao Ren (English walnut)	(seed) Alpha-hydrojuglone-4- β -D-glucoside, jugone, juglanin. ³³	Nourish and invigorate the lungs and kidneys.
<i>Juncus communis</i> Mey.	Den Xin (Bulrush)	(whole plant) Arabinose, xylose. ⁶⁸	Antilithic, pectoral, discutient, refrigerant, diuretic, depurative, sedative.
<i>Juncus effusus</i> L.	Deng Xin Cao (Common rush)	(whole plant) Tripeptide, r-glutamyl-valyl-glutamic acid, apigenin, juglandic acid, juglonone, barium, luteolin-7-glucoside, luteolinidin, oxalic acid, arsenic, vitamins. ^{48,450}	Diuretic, sexually transmitted diseases, anti-inflammation.
<i>Juniperus rigida</i> Sieb. et Zucc. <i>J. rigida</i> Sieb. et Zucc. f. <i>modesta</i> (Nakai) Y. C. Chu	Tu Soon (Juniper)	(fruit) Alpha-pinene, myrcene, carene, limonene, p-cymene, beta-elemene, caryophyllene, humulene, borneol, r-cadinene, terpinene, citronellol, anethole. ⁴⁸	Hemorrhage, treat hemoptysis, inflammation, kidney infection, arthritis joint infection.
<i>Justicia gendarussa</i> L. <i>J. procumbens</i> L.	Qin Jiu	See <i>Gentiana macrophylla</i>	
<i>Kadsura japonica</i> (L.) Dunal	Nan Wu Wei Zi (Kadsura)	(vine) Kadsuric acid, kadsurin, kadsurarin A, germacrene. ^{33,227}	Against hepatitis B. Relieve pain, a detoxicant, improve blood circulation, relieve arm and leg numb feelings.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Kaempferia galanga</i> L.	Shan Na (Galanga)	(rhizome) Borneol, camphor, cineol, ethyl alcohol. ⁴⁹	Stomachic, carminative, stimulant.
<i>Lactuca raddeana</i> Maxim. <i>L. indica</i> L. <i>L. sativa</i> L.	Shan Wo Ju (Lettuce)	(seed) Pectic compound, oxalic acid, malic acid, citric acid, ceryl alcohol, ergosterol, vitamin E. ⁵⁰	Anodyne, lactagogue, for genital swelling, hemorrhoids, lumbago.
<i>Lagdera alata</i> (D. Don) Schultz-Bip ex Oliver	Lu Er Jin	(whole plant) Flavonoid glycoside, phenols, amino acid, essential oil. ⁵⁶	Detoxicant, relieve swelling, treat fever, cough, hepatitis.
<i>Laminaria angusta</i> Kjellim. <i>L. cichorioides</i> Miyabe. <i>L. japonica</i> Aresch. <i>L. longipedalis</i> Okam. <i>L. religiosa</i> Miyabe.	Kun Bu or Hai Dai	(thallus) Iodine, potassium, calcium, amino acids, laminarin, laminine, algin. ³³	Improve thyroid function, correct the malignant vicious cycle effect of iodine deficiency, lower blood pressure.
<i>Lappa communis</i> Coss et Germ. <i>L. edulis</i> Sieb. <i>L. major</i> Gaerth. <i>L. minor</i> DC (Syn. <i>Arctium lappa</i>)	Niu Bang, Zong Shi	(seed, root) Seed: arctin, arctigenin, gobosterin, essential oil, fatty oil. Root: Inulin, lappine, lappatin, resin, essential oil, tannins. ⁴⁹	Diuretic, antipyretic, expectorant, antiphlogistic in throat infections, pneumonia, scarlet fever, measles, smallpox, syphilis.
<i>Lawsonia inermis</i> L.	Zhi Jia Hua (Henna)	(flower) Alpha-ionone, beta-ionone, gallic acid, lawsone. ⁵⁰	Antibiotic, antitumor, anthelmintic, astringent, bactericidal, fungicidal, sedative.

<i>Ledebouriella divaricata</i> Hiroe.	Fang Feng	(root) Essential oils, alcohol derivatives, organic acids. ³³	Antipyretic, analgesic, antibacterial, treat migraine headache, common cold and rheumatoid arthritis.
<i>Ledum palustre</i> L. subsp. <i>decumbens</i> (Aiton) Hulten	Tu Xian	(leaf, shoot) Alpha-pinene, camphene, sabinene, myrcene, alpha-phellandrene, beta-pinene, limonene, quinene, isothujene, ascaridol, arbutin ericolin. ⁴⁸	Treat cough, asthma, lower blood pressure, antifungal.
<i>Lemmaphyllum microphyllum</i> Presl.	Jing Mian Cao	(whole plant) Vitamins, luteolin-7- β -D-glucopyranoside, flavonoids, d-apiose, protein, resin. ⁴⁸	A poultice for animal bites, itchiness, a lotion for smallpox, relieve headache.
<i>Lemna minor</i> L. <i>L. perpusilla</i> Torrey	Qing Ping (Duckweed)	(aerial part) Luteolin-7-beta-D-glucopyranoside. ⁵⁰	For circulation, measles, swollen feet, depurative, diuretic, soporific.
<i>Leonurus heterophyllum</i> Sweet <i>L. japonicus</i> Houttuyn. <i>L. macranthus</i> Maxim. <i>L. mongolicus</i> V. Kreczet. et Kupr. <i>L. pseudo-macranthus</i> Kitag.	Yi Mu Cao (Motherwort)	(aerial part) Leonurine, stachydrine, vitamin A, leonardine, leonurinine, fatty oils. ³³	Stimulates uterine contractions, respiratory system, proliferation of T cells, skeletal muscles.
<i>Leonurus sibiricus</i> L. <i>L. sibiricus</i> L. f. <i>albiflorus</i> (Nakai et Kitag.) G. Y. Wu	Chung Way Bai Hua Yi Mu Cao (Siberian motherwort)	(seed) Essential oil, leonurine. ⁴⁹	Emmenagogue, diuretic, vasodilator.
<i>Lepidium apetalum</i> Willd. <i>L. virginicum</i> L.	Do Xing Cao Bei Mei Do Xing Cao	(seed) Isothiocyanates. ⁵⁰	Antibacterial, cardiostonic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Lespedeza cuneata</i> G. Don	Ye Guan Men (Perennial lespedeza)	(whole plant) Beta-sitosterol, pinitol, flavonoid. ³³	Antitussive, antiasthmatic, antiphlogistic, antibacterial.
<i>Leucaena leucocephala</i> (Lam.) De Wit	Yin He Huan	(leaf, seed) Leucanol, leucaenine, phenolic compounds, condensed tannins. ^{60,228} This herb is toxic.	Anthelmintic, for diabetes, an emollient, emmenagogue.
<i>Ligusticum chuanxiang</i> Hort.	Chuan Xiang	(rhizome) Tetramethylpyrazine, perlolyrine, leucylphenylalanine anhydride, cnidilide, neocnidilide, ligustilide, acetylsalicylic acid, phthalide, benzoquinone. ^{33,226,419,420}	Promote blood flow, remove blood stasis and relieve pain.
<i>Ligusticum jeholense</i> (Nakai et Kitag.) Nakai et Kitag. <i>L. pyrenacum</i> Couan. <i>L. sinense</i> Oliv. <i>L. tenuissimum</i> (Nakai) Kitag.	Gao Ben	(root) Nothosmyrrol, coumarin, chromone, polyacetylene. ^{33,259}	Induce diaphoresis, for gout, an anodyne, emmenagogue, sedative.
<i>Ligustrum lucidum</i> Mill. <i>L. japonicum</i> Thunb.	Nu Zhen Zi (Wax tree)	(fruit) Nuzhenide, oleanolic acid, ursolic acid. ^{33,445}	Increase leukocyte count, a cardiac tonic, diuretic, treat urological tumors.

<i>Lilium brownii</i> F. E. Brown var. <i>viridulum</i> Baker <i>L. concolor</i> Salisb. var. <i>buschianum</i> (Ledeb.) Baker <i>L. concolor</i> Salisb. var. <i>partheneion</i> (Sieb. & De Vries) Baker <i>L. dauricum</i> Ker-Gawler <i>L. distichum</i> Nakai ex Kamibayashi <i>L. japonicum</i> Thunb. <i>L. lancifolium</i> Thunb. <i>L. pumilum</i> DC	Bai He (Lily, Star lily)	(bulb) Protein, colchicine. ⁴⁹	Relieve coughing, ease anxiety, improve digestion, treat anxiety, apprehension, carminative, sedative, gynecologic disorders.
<i>Linaria vulgaris</i> Miller subsp. <i>sinensis</i> (Bebeaux) Hong	Liu Chun Yu	(aerial part) Peganine, linarin, pectolinarin, neolinarin, flavones, pectolinarigenin, linaracrine, linarezine, phytosterine. ⁴⁸	Diuretic, treat headache, dizziness, heart condition. Externally treat burns, skin diseases.
<i>Lindera akoensis</i> Hayata	Nei Don Zi	(leaf) ⁵⁵ No information is available in the literature.	Treat wounds.
<i>Lindera communis</i> Hemsley	Xian Ye Shu	(fruit) Fatty acids. ⁵⁵	Relieve swelling, pain, bleeding, treat infection.
<i>Lindera glauca</i> (Sieb. et Zucc.) Blume	Bai Ye Diao Zhang	(fruit) Essential oils, cineole, limonene, caryophyllene, bornylacetate, fatty acids, camphene, beta-pinene. ⁵⁵	Carminative properties, treat arthritis joint pain.
<i>Lindera megaphylla</i> Hemsley	Da Xian Ye Shu	(root, seed) Essential oils. ⁵⁵	Promote sweating, treat wounds.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Lindera obtusiloba</i> Blume f. <i>villosa</i> (Blume) Kitag.	Nei Don Zi	(bark) Campesterol, linderol, capric acid, lauric acid, myristic acid, linderic acid, dodecen-4-oic acid, oleic acid, tetradecen-4-oic acid, tsudzuic acid, linoleic acid. ⁴⁸	Reduce swelling, pain.
<i>Lindera strychnifolia</i> Vill.	Wu Yao	(fruit, root, seed) Essential oils, linderstrene, linderane, linderoxide, linderalactone, isolinderalactone, isolinderoxide, linderstrolide, neolinderalactone, isofuranogermacrene, linderene. ³³	Improve circulation, relieve pain, abdominal distention, fever.
<i>Linum stelleroides</i> Planch. <i>L. usitatissimum</i> L.	Ya Ma (Flax)	(whole plant) Fatty acids, geranylgeraniol, cholesterol, campesterol, orientin, stigmasterol, avenasterol, vitexin cycloartenol, eikosanol, leucine, valine, linamarin, lotaustralin. ⁴⁸	For diarrhea, sensitive skin, itchiness, loss of hair.
<i>Liquidambar acerifolia</i> Max. <i>L. formosana</i> Hance <i>L. maximowiczii</i> Miq.	Fon Xian Chi (Liquid amber)	(bark, leaf, root) Balsam (resin), cinnamic alcohol, cinnamic acid, 1-borneol, camphene, dipentane, terpene. ^{60,69}	Analogous, externally as antiphlogistic and astringent in skin diseases, antihemorrhagic.
<i>Liriope graminifolia</i> Bak. <i>L. platyphylla</i> Wang & Tang <i>L. spicata</i> Lour.	Mai Men Dong	(root) Mucilage. ⁴⁹ This herb is used to produce Ophiopogon. ⁶⁰	Antitussive, expectorant, emollient.

<i>Litchi chinensis</i> Sonn.	Li Chi (Lychee)	(leaf, fruit, seed) Citric acid, vitamins A, B, C, sugar, amino acids, lysine, leucine, valine, alanine, glutamic acid, serine, proline, asparagic acid, threonine, arginine, lysine, beta-phenethyl alcohol. ^{49,50,70}	Remedy for gland enlargement, tumors, treat bites of poisonous animals. Astringent, analgesic in gastralgia, colic, orchitis.
<i>Lithospermum erythrorhizon</i> Sieb. et Zucc. <i>L. officinalis</i> var. <i>erythrorhizon</i> Sieb. et Zucc.	Zhu Cao (Groomwell)	(root) Quinonoid, alkannan, acetylshikonin, shikonin, lithospermin, dihydroshikonin, cycloshikonin. ^{1,69}	Ointment to treat wounds and burns, antitumor, antipyretic, regulating blood circulation, diuretic, purgative, remedy for smallpox.
<i>Litsea cubeba</i> Lour.	Shan Cong Zi (Cubebs)	(fruit) Citral, linalool, laurotetanine. ³³	Treat chronic bronchitis and bronchial asthma, protect hypersensitization shock.
<i>Livistona chinensis</i> (Jacq.) R. Br. ex Mart.	Kui Shu Zi	(shoot, leaf, seed) Triglyceride. ⁵⁴	Anticancer, treat tuberculosis, regulating menses, externally for bites or stings.
<i>Lobelia chinensis</i> L. <i>L. pyramidalis</i> Wallich. <i>L. sessilifolia</i> Lambert	Ban Bian Lian Sha Gen Cai (Lobelia)	(whole plant) Lobeline, lobelanine, lobelanidine, isolobelamine. (Lobeline has been approved by the FDA to curb the tobacco habit). ^{33,50,71} This herb may be toxic.	Diuretic, increase respiration via stimulation of carotid chemoreceptors. Treat snakebites, insecticide, reduce swelling, depurative, antirheumatic, antisiphilitic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Lonicera acuminata</i> Wallich <i>L. apodonta</i> Ohiwi <i>L. brachypoda</i> DC <i>L. chinensis</i> Wats. <i>L. confusa</i> Miq. <i>L. flexuosa</i> Thunb. <i>L. hypoglauca</i> Miq. <i>L. japonica</i> Thunb. <i>L. japonica</i> var. <i>chinensis</i> Bak. <i>L. maackii</i> (Rupr.) Maxim.	Rui Ye Ren Dong Duan Geng Ren Dong Jin Yin Hua Ren Dong (Honeysuckle)	(flower bud, whole plant) Luteolin, inositol, loganin, lonicerin, syringin, saponin, tannins, chlorogenic acid, luteolin-7-rhamnoglucoside. ^{33,48,55}	Antibacterial, cytoprotective, antilipemic, antiphlogistic.
<i>Lophanthus chinensis</i> Walp. <i>L. rugosus</i> Fisch. et Mey. (Syn. <i>Agastache rugosa</i>)	Huo Xiang	(leaf) Essential oils. ⁴⁹	Carminative, stomachic.
<i>Lophatherum gracile</i> Brongn.	Dan Zhu Ye	(aerial part) Arundoin, cylindrin, friedelin. ³³	Antipyretic, diuretic, antibacterial.
<i>Loranthus parasiticus</i> <i>L. yadoriki</i> Sieb. et Zucc.	Song Ji Shang (Mistletoe)	(leaf, stem) Saponins including avicularin, quercetin. ⁴⁰	Treat angina pectoris, cardiac arrhythmia, hypertension. Ointment to treat frostbite.
<i>Loropetalum chinense</i> (R. Br.) D. Oliver	Ji Mu (Strap flower)	(plant) Flavone, quercitrin, isoquercitrin. ³³	Antipyretic, a detoxicant, hemostatic, treat angina pectoris, bronchitis, bleeding, alimentary indigestion.

<i>Luffa aegyptiaca</i> Mill. <i>L. cylindrica</i> Roem. <i>L. faetida</i> Sieb. et Zucc. <i>L. petola</i> Ser.	Se Gua (Luffa sponge)	(fruit fibers) Xylose, mannosan, galactan, saponins, acetic acid, valeric acid, pinenes, limonene, cineole, sterol, menthone, linalool, bourbonene, caryophyllene, menthol, carvone, vitamins A, B, C. ^{49,50,351}	Hemostatic, analgesic in enterorrhagia, dysentery, metrorrhagia, orchitis, hemorrhoids.
<i>Lupinus luteus</i> L.	Yu Shan Dou	(whole plant) Lupinine, lupinidin, rechts-lupinine, d-lupaine. ⁵⁶ This herb is toxic.	Diuretic, insecticidal, treat fever, respiratory difficulties.
<i>Lycium barbarum</i> L. <i>L. megistocarpum</i> Dun. <i>L. ovatum</i> Loisel. <i>L. trewianum</i> G. Don <i>L. turbinatum</i> Loisel.	Gou Gi, Gou Qi Zi (Ningxia wolfberry)	(fruit) Betaine, zeaxanthin, physalein, carotenes, nicotinic acid, vitamin C. ^{33,447}	Increase leukocyte count, anti- cancer, increase immunity, stimulation of tissue development.
<i>Lycium chinense</i> Miller	Di Gu Pi (Matrimony vine)	(root bark) Cinnamic acid, betaine, peptides, acyclic diterpene glycosides, polysaccharide, kukoamines. ³³	Lower blood sugar and blood pressure, antipyretic, stimulate uterine contraction, antibacterial.
<i>Lycopersicon esculentum</i> L.	Fan Qie (Tomato)	(root, leaf) Protein, vitamin A, thiamine, nicotinic acid, riboflavin. ⁵⁰	Relieve toothache, insecticide, laxative.
<i>Lycopodium annotinum</i> L. <i>L. cernum</i> L. <i>L. compianatum</i> L.	Shan Ye Man Shi Song Jin Gu Cao (Devil's powder) Di Shua Zi (Ground cedar)	(whole plant) Clavatine, lycopodine, complanatine, alpha-obscurne, serratenediol, tohogenol. ⁴⁸	Relieve numb feeling, arthritis pain, sexually transmitted disease.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Lycopodium clavatum</i> L. var. nipponicum Nakai <i>L. obscurum</i> L. <i>L. selago</i> L. <i>L. serratum</i> Thunb.	Shen Jin Cao (Running pine, staghorn clubmoss, princess pine)	(whole plant) Lycopodine, lycodoline, clavatine, fawcettine, clavoloninine, azelaic acid, clavatoxine, fawcettimine, deacetyl fawcettine, nicotine, vanillic acid, ferulic acid, alpha-onocerin, lycoclavanol, lycoclavanin, lycopodine. ^{33,48}	Relieve the rigidity of muscles and joints, treat arthritis and dysmenorrhea.
<i>Lycopus fargesii</i> Herter <i>L. lucidus</i> Turcz. <i>L. lucidus</i> Turcz. f. <i>hirtus</i> (Regel) Kitag. <i>L. maackianus</i> (Maxim.) Makino <i>L. parviflorus</i> Maxim. <i>L. ramosissimus</i> (Makino) Makino var. <i>japonicus</i> (Matsum et Kudo) Kitam. <i>L. veitchii</i> Christ.	Shan Ye Shi Song Shi Song Yu Shan Shi Song (Shining water horehound)	(aerial part) Resin, lycopose, raffinose, glucose, stachyose. ⁴⁸	For abdominal distention, abscesses, congestive edema, blood extravasation.
<i>Lycoris aura</i> (L'Her.) Herb. <i>L. longituba</i> Y. Han et Fan <i>L. radiata</i> (L'Her.) Herb.	Shi Suan (Amaryllis)	(rhizome) Galanthamine, lycoremene, lycorine, lycoramene, lycorenine, tazettine, pseudolycorine, dihydrolycorine, homolycorine, lycoricidine, lycoricidinol. ³³	As a cholinesterase inhibitor, lower blood pressure, stimulate secretion from the pituitary gland, increase natriuretic hormone secretion.
<i>Lygodium japonicum</i> Swartz. <i>L. flexuosum</i> (L.) Sw.	Hai Jin Sha Teng (Climbing fern)	(leaf with or without sporangia) Fatty oil. ⁴⁹	Diuretic, antirheumatic against venereal diseases, disorder of the urinary tract.

<i>Lyonia ovalifolia</i> (Wall.) Drude.	Nan Zhu	(leaf, fruit) Andromedotoxin, lyoniols. ⁶⁰ This herb is highly toxic.	A tonic.
<i>Lysimachia barystachys</i> Bunge. <i>L. christinae</i> Hance <i>L. clethroides</i> Duby <i>L. davurica</i> Ledeb. <i>L. davurica</i> Ledeb. f. <i>latifolia</i> Korsh.	Jin Qian Chao (Loosestrife)	(whole plant) Essential oils, l-pinocamphone, l-menthone, l-pinene, limonene, 1,8-cineol, p-cymene. ³³	Diuretic, a cholaretic agent, antibacterial.
<i>Lysionotus pauciflorus</i> D. Don	Shi Diao Lan	(aerial part) Organic acids, flavones, nevadersin. ³³	Antibacterial, antitussive, lower blood pressure.
<i>Lythrum salicaria</i> L. <i>L. salicaria</i> L. var. <i>glabrum</i> Ledeb.	Qian Qu Cai (Purple loosestrife)	(aerial part) Tannins, salicarin, chlorogenic acid, cyanidin-3-monogalactoside, ellagic acid, malvidin, malvin, orientin, vitexin. ^{50,72}	Astringent, styptic, treat bacillary dysentery.
<i>Machilus thunbergii</i> Sieb. et Zucc.	Hong Nan	(bark, root) dl-N-noramepavine, quercetin, N-norarmepavine, reticuline, lignoceric acid, dl-catechol. ⁵⁷	Remove eczema, treat spleen and stomach disease, asthma.
<i>Macleaya cordata</i> (Willd.) R. Br.	Bo Lou Hui	(whole plant including root, fruit) Sanguinarine, oxysanguinarine, ethoxysanguinarine, protopine, alpha-allocryptopine, bocconine, chelerythrine, coptisine, herberinecorysamine, bocconoline, ethoxychelerythrine, chelilutine, chelirubine. ³³ This herb is toxic.	Antiplasmodial, treat vaginal trichomonas, antibacterial.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Macrocarpium officinalis</i> (Sieb. et Zucc.) Nakai	Shan Zhu Yu	(fruit) Tannic acid, resin, tartaric acid, cornin, gallic acid, malic acid. ⁶⁰	A tonic, astringent, diuretic, antillithic, anthelmintic, febrifuge.
<i>Maesa japonica</i> (Thunb.) Moritzi	Du Jing Sha	(aerial part) Maesaquinone. ⁵⁰	Emetic, febrifuge, resolvent, styptic, for fever, malaria.
<i>Maesa perlarius</i> (Lour.) Merrill.	Sha Gui Hua	(leaf, root) Alkaloids, quinonic substance. ⁷³	Crushed leaves are bound over broken bones or treat measles. Root is diuretic, stomachic.
<i>Maesa tenera</i> Mez.	Taiwan Sha Gui Hua	(whole plant) Maesaquinone. ⁵⁸	Stomachache, hepatitis, lower cholesterol level, treat cold, headache.
<i>Magnolia biloba</i> Cheng <i>M. denudata</i> Desr. <i>M. discolor</i> Vent. <i>M. liliflora</i> Desr. <i>M. purpurea</i> Curt.	Xin Yi, Mu Lan (Red magnolia)	(flower bud, leaf) Flower: eugenol, safrole, citrol, anethol. Leaf: salicifoline, citral, magnocurarine. ³³ Essential oils, safrole, anethole, estragole, cineol, eugenol. ⁴⁹	Relieve nasal congestion, sinusitis, rhinitis, coryza, headache, vertigo.
<i>Magnolia coco</i> (Lour.) DC <i>M. fortunei</i> (Lindl.) Fedde	Ye He Hua Gong Lao Mu	(bud, flower, stalk) Alkaloid. ⁷⁴	Febrifuge, stimulant, tonic, treat chronic rheumatism.
<i>Magnolia grandiflora</i> L.	Yang Yu Lan	(bark, flower bud) magnocurarine, salicifoline, fatty acids, volatile oil. ⁵⁶	A tonic, treat malaria, high blood pressure, headache.

<i>Magnolia hypoleuca</i> Diels. <i>M. officinalis</i> Rehd. et Wils. <i>M. japonica</i> (Thunb.) DC	Hou Po Huang Bai Mu (Magnolia)	(bark) Alkaloids, magnocurarine, magnoflorine, beta-eudesmol, neo-lignans, magnolol, konokiol, liriodenine, crytomeridiol. ^{6,33} This herb may cause kidney failure. ³⁹² <i>Magnolia officinalis</i> bark is toxic.	Central nervous system depressant action, sedative, anticonvulsant, muscle relaxation.
<i>Mahonia japonica</i> DC	Gou Gu	(leaf, root, stem, seed) Berberine, jatrorrhizine, palmatine. ^{97,255}	Antipyretic, backache, cough, dysentery, fever.
<i>Mallotus japonicus</i> (Thunb.) Muell.	Ye Wu Tong	(stem, leaf) Resin, tannins, alkaloids. ⁶⁰	Treat lumbar pain, stomachache, crushed leaves are applied to tumors and swellings.
<i>Mallotus paniculatus</i> (Lam.) Muell.-Arg.	Bai Bao Zi	(stem leaf) Amino acids. ⁵⁷	To cleanse wounds.
<i>Mallotus repandus</i> (Willd.) Muell.	Gong Xian Teng	(stem, leaf) Mallorepine, bergenin, repandusinin, repandusinic acids, mallotinin. ^{340,341}	An insecticide, relieve itching, anti-inflammatory.
<i>Malva chinensis</i> Mill. <i>M. pulchella</i> Berhn. <i>M. sylvestris</i> L. <i>M. verticillata</i> L.	Dong Kui Zi (Chinese mallow)	(whole plant) l-arabinose, l-rhamnose, d-galacturonic acid. ⁷⁵	Treat stomach and intestinal disorders, to make labor easier, laxative, treat gonorrhea, congestion, constipation.
<i>Manihot esculenta</i> Crantz.	Shu Shu	(root) Hydrocyanic acid. ⁷⁶ This herb is toxic.	To dress ulcerous sores.
<i>Marsdenia tenacissima</i> (Roxb.) Wight. et Am.	Tong Guan Teng	(stem) Saponins, marsdeoreophisides, metaploxigenin, sarcostin. ³³	Antiasthmatic, hypotensive, antibacterial.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Matricaria chamomilla</i> L.	Yang Gan Jiu (Matricary)	(flower head, leaf) Volatile oil, azulene, isoamyl, isobutyl, angelic acid, tiglic acid, anthelmic acid, tannins, malic acid. ⁷⁷	Carminative, diaphoretic.
<i>Matteuccia struthiopteris</i> (L.) Todaro	Jia Gou Ju	(root) Ponasterone A, ecdysterone, palmitic acid, astragalin, caffeic acid, chlorogenic, vanillic acid, p-hydroxybenzoic, p-coumaric, ferulic, protocatechuic, beta-sitosterol, campesterol, filicin, stigmasterol, pterosterone. ^{48,217}	Tonic, lower blood pressure.
<i>Maytenus diversifolia</i> Hou. <i>M. confertiflorus</i> Luo & Chen.	Ci Luo Shi	(leaf, bark) Dulcitol, maytansine, succinic acid, syringic acid, 3-oxykojie acid, loliolide. ⁵⁰	Antitumor, bark is used for cancer of the liver and stomach.
<i>Maytenus serrata</i> (Hochst. ex A. Rich) Wilcz. <i>M. hookeri</i> Loes.	Mei Deng Mu	(fruit, bark, rhizome) Maytansine, maytanprine, maytanbutine, maytanvaline, maytanacine, maytansinol. ³³	Treat lung cancer, breast and ovarian cancer, acute lymphocytic leukemia, colon carcinoma, kidney carcinoma.

<i>Medicago falcata</i> L. <i>M. lupulina</i> L. <i>M. polymorpha</i> L. <i>M. ruthenica</i> (L.) Ledeb. <i>M. sativa</i> L.	Mu Xu (Alfalfa)	(whole plant) Lucernol, sativol, coumesterol, formonetin, daidzein, tricin, citrulline, canaline, dicoumarol, methylene-bishydroxy-coumarin, medicagemic acid, ononitol, petunidin, malvidin, delphinidin, linalool, myrcene, limonene. ⁴⁸	Depurative, diuretic, stomachic, treat intestinal and kidney disorders, kidney stone, poor night vision.
<i>Melaleuca leucadendra</i> L.	Bai Qian Ceng (Cajeput)	(leaf) Cajuputol, cineole, eucalyptol, lignin, melaleucin, pinene, terpinol, l-limonene, dipentene, nerolidiol, sesquiterpenes, azulene, sesquiterpene alcohols, valeraldehyde, benzaldehyde, betulinic acid, oleanolic acid, ursolic acid, quercimeritrin, isoquercitrin, gallic acid. ⁵⁰	Treat dropsy, oil is for gout, inhaled to treat colds, rhinitis, embrocation against rheumatism. It is an anodyne, antispetic.
<i>Melasma arvense</i> (Benth) Handel- Maxxetti	Hei Shuo	(whole plant) Musaenoide, aucubin. ⁵⁷	Treat child's whitish tongue, diuretic.
<i>Melia japonica</i> G. Don <i>M. toosendan</i> L. <i>M. azedarach</i> L.	Chuan Lian or Ku Lian Ku Lian Pi or Ku Lian Chi (Chinaberry tree)	(stem, root bark) Toosendanin, nimbin, kulinone, methylkulonate, melianol, gedunin, melianodiol, melianotriol, melialactone, azadarachtin, nimbolins, fraxinella, palmitic acid, lauric acid, valerianic acid, butyric acid, stearic acid, cycloencalenol. ^{33,49,144} This herb is toxic.	Treat intestinal parasite, antibacterial, anthelmintic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Melilotus alba</i> Medicus <i>M. indica</i> (L.) All. <i>M. suaveolens</i> Ledeb.	Be Han Cao (Clover)	(whole plant) Hydroxycinnamic acid, coumarinic acid, 4-hydroxycinnamic acid, cumaric acid, umbelliferone, scopoletin, melilotoside, melilotic acid, beta-D-glucosyloxy, dicumarol, chlogogenic acid, caffeic acid, melilotic acid. ⁴⁸	Anticoagulant, treat bowel complaints, infantile diarrhea. A bactericide.
<i>Melochia corchorifolia</i> L.	Ye Lu Kui	(leaf) Trifalin, melocorin, hibifolin. ⁵⁷	As poultice to treat sores, swelling and pain in the abdomen. Also treat vomiting.
<i>Menispermum dauricum</i> L.	Ye Dou Gen, Shan Dou Gen (Moonseed)	(root) Dauricine, daurinine, l-stepharine, dauricoline, acutumine, tetrandrine, dauricinoline, stepholidine, magnoflorine, menisperine, sinomenine. ^{33,505}	Antiarrhythmic, analgesic effect, relieve headache, insomnia.
<i>Menispermum dauricum</i> DC f. pilosum (Schneider) Kitag. (Syn. <i>Cocculus diversifolius</i>)	Fang Chi (Siberian moonseed)	(whole plant) Acutumine, acutuminine, dauricine, disinomenine, magnoflorine, menispermine, sinomenine, stepharine, tetrandrine. ⁵⁰	Antitumor, cytotoxic, alleviate skin allergies, antirheumatic, anticancer against esophageal cancer.

<i>Mentha arvensis</i> L. <i>M. dahurica</i> Fisch. ex Benth. <i>M. haplocalyx</i> Briq. <i>M. sachalinensis</i> (Briq.) Kudo <i>M. sachalinensis</i> (Briq.) Kudo f. arguta (Kitag.) Y. C. Chu	Bo Hoo (Peppermint)	(aerial parts) Menthol, menthone, menthyl acetate. ³³	Stimulate gastrointestinal tract motility and central nervous system, dilate peripheral blood vessels, increase sweat gland secretion.
<i>Menyanthes trifoliata</i> L.	Shui Cai (Bogbean)	(whole plant) Aromadendrine, betulinic acid, cadinene, choline, gentiatibetin, cineole, dihydrofoliamenthin, foliamenthin, gentialutine, loganin, gentianine, gentiatibetine, invertin, gurjuncene, meliatin, menthiafolin, menyanthin, secologanin, alpha- spinasterol, stigmast-7-enol, trifolioside. ⁵⁰	Antitumor, increase gastric secretions, as cathartic, cholagogue, narcotic, sedative, tonic, vermifuge.
<i>Michelia alba</i> DC <i>M. figo</i> DC	Bai Yu Lan Han Xiao Hua (White champac)	(flower bud) Acetic acid, linalool, michelabine, methylethylacetic ester, methyl eugenol, oxoushinsunine, salicifoline, ushinsunine. ⁵⁰	For sapremia following miscarriage.
<i>Milletia reticulata</i> Benth. <i>M. taiwaniana</i> (Matsum.) Hayata	Ji Xue Teng Lu Teng	(leaf) Rotenone, anhydroderrid. ⁶⁰	Insecticide.
<i>Mimosa arborea</i> Thunb.	Han Xiou Cao	See <i>Albizia julibrissin</i>	
<i>Mimosa invisa</i> Mart. et Colla <i>M. pudica</i> L.	American Han Xiou Cao Han Xiou Cao	(whole plant) Minosine. ⁷⁸ This herb is toxic if overdose.	Treat neurosis, trauma wound, and hemoptysis. It has a tranquilizing effect.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Momordica charantia</i> L.	Ku Gua (Bitter melon)	(seed) Anti-HIV protein MAP 30, sterol. ^{33,351,408,423}	For immune disorders and common infections. Capable of inhibiting infection of HIV-1 in T. lymphocytes and monocytes, anti-tumor.
<i>Momordica cylindrica</i> L.	Si Gua	See <i>Luffa cylindrica</i>	
<i>Momordica grosvenori</i> Swingle	Luo Han Guo	(fruit) Esgoside. ³³	An expectorant, control coughing.
<i>Morinda citrifolia</i> L. <i>M. officinalis</i> L.	Je Shu Ba Ji Tian	(root) Dihydroxy methyl anthraquinone, glucoside morindin, rubichloric acid, alizarin, alpha-methyl ether, rubiadin-I-methyl ether, tannins, morindadiol, masperuloside, soranjudiol, nordamnacanthal. ^{50,424}	Treat beri-beri, cancer, lumbago, cholecystitis, increase leukocyte count, stimulate endocrine system.
<i>Morinda parvifolia</i> Bartling	Xiao Ye Yang Jiao Teng	(root) Methanolic, morindaparvin-a, alizarin-I-methyl ether. ⁵⁰	Against p-388 lymphocytic leukemia growth (<i>in vivo</i>), cytotoxic, antileukemic.
<i>Morus alba</i> L. <i>M. constantinopolitana</i> Poir. <i>M. indica</i> L.	Sang Zhi or Sang Gen Bai Pi (Mulberry tree)	(young twig) Morin, dihydromorin, maclurin, dihydrokaempterol, mulberrin, 2,4,4', t-tetrahydroxybenzophenone, mulberrochromene, cyclomulberrochromene. ³³	Antirheumatic, antihypertensive, diuretic, remove obstructions of the intestinal tract.

<i>Murraya paniculata</i> (L.) Jack	Jiu Li Xiang (Orange jessamine)	(leaf, young branches) l-cadinene, methylantranilate, bisabolene, beta-caryophyllene, geraniol, carene, 5-guaizulene, osthol, paniculatin coumurrayin. ³³	Relieve pain, remove toxic substances, an antispasmodic, antagonize muscular spasms.
<i>Musa paradisiaca</i> L. var. <i>sapientum</i> O. Ktze.	Xiang Jiao (Banana)	(root, trunk juice, fruit, flower) Serotonin, norepinephrine. ⁶⁰	Carbuncles all kinds of tumors, swellings, measles, headache with fever and sunburn. Stimulate the smooth muscle of the intestine, treat certain forms of heart collapse.
<i>Mussaenda parviflora</i> Miq.	Yu Ye Jin Hua	(leaf, root) Triterpinoid. ⁷⁹	Treat malarial fever.
<i>Myrica rubra</i> (Lour.) Sieb. et Zucc.	Gou Mei (Chinese strawberry)	(fruit) Myricetin. ³³	Treat gastric pain, diarrhea, dysentery.
<i>Myristica fragrans</i> Houtt.	Rou Dau Kou (Nutmeg)	(seed) Lauric acid, myristic acid, stearic acid, hexadecanoic acid, oleic acid, linoleic acid, amyloextrins, pectins, resins, camphene, cymene, dipentene, eugenol, geraniol, isoeugenol, linalool, myristicin, pinene, saffrole, terpineol. ⁵⁰ Volatile oil from this herb may be toxic.	For hysteria, hypochondria, agoraphobia, laughter, cramps, crying jags, dysmenorrhea, amnesia.
<i>Nandina domestica</i> Thunb.	Nan Tian Zhu (Sacred bamboo)	(fruit, bark, leaf) Domesticine, nandinine, cyanic acid, nandazurine, berberine. ⁴⁹ This herb is toxic.	Antitussive.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Narcissus tazetta</i> L. var. <i>chinensis</i> Roem.	Shui Shai (Polyanthus narcissus)	(bulb) Lycorine, tazettine, narcitine. ^{49,60} This herb is toxic if overdose.	Antiphlogistic, analgesic for boils, abscesses, mastitis.
<i>Nardostachys jatamansi</i> DC	Ga Song Xiang (Spikenard)	(root) Essential oil, jatamansic acid, sesquiterpene. ^{49,80}	Aromatic stomachic, sedative, antispasmodic.
<i>Nauclea rhynchophylla</i> Miq. <i>N. sinensis</i> Oliv.	Gou Teng	(stem, spine) Rhynchophylline, isorhynchophylline. ^{49,72}	Lower blood pressure, paralyze sympathetic nerve ending, sedative, antispasmodic in infantile nervous disorders.
<i>Nelumbium nelumbo</i> Druce.	Lian Zi Xin (Lotus)	(plumule) Liensinine, isoliensinine, neferine, lotusine, methyl-corypalline, demethyl-coclaurine. ³³	Tranquilizing and antihypertensive.
<i>Nelumbium nuciferum</i> Gaertner <i>N. speciosum</i> Willd.	Lian, He Ye (East Indian lotus)	(leaf) Nuciferine, roemerine, anonaine, O-nornuciferine, liriodenine, anneparine, dihydronuciferine, pronuciferine, N-methylcoclaurine, N-methylisococlaurine. ³³	Relaxing effect on smooth muscles, increase essential body energies.
<i>Neolalsomitra integrifoliola</i> (Cogn.) Hutch	Bang Chui Hui	(stem) Cucurbitacin B, iso-cucurbitacin B, carotenoids. ⁵⁶	Laxative for diarrhea, treat intermittent fever, hepatitis, thyroid gland swelling. Used as a wash for contusions.

<i>Nepenthes raffsiana</i> Masilus	Zhu Long Cao (Pitcher plant)	(root, stem) Flavonoids, anthraquinoids, amino acids, phenols. ⁵⁷	As a poultice to treat stomachache and dysentery. Internally to treat remittent fever.
<i>Nephelium longana</i> Camb. <i>N. lappaceum</i> L.	Ron Yen Raw Hong Mao Dan (Rambutan)	(aerial part, kernel) Glucose, sucrose, tartaric acid, vitamins A, B, saponins, tannins. ⁴⁹	Nutrient tonic in neurasthenia, insomnia, styptic.
<i>Nerium indicum</i> Mill.	Jia Zhu Tao (Indian oleander)	(leaf, stem, flower, root) Oleandrin (toxic), oleandrose, neriodorin, nerioderin, karabin, scopoletin, scopolone, neriodin, ursolic acid, adynerin. ^{33,450}	Treats psychosis, congestive heart failure, analgesic, emmenagogue.
<i>Nervilia purpurea</i> (Hayata) Schltr.	Yi Dian Hong	(whole plant) Cyclonerviol, cyclomonerviol, stigmasterol, dihydrocyclonerviol, ergosterol, epibrassicasterol, nervisterol, cyclonerviol. ⁵⁸	As a protective medicine post partum, treat throat infection, pneumonia, high blood pressure, diabetes.
<i>Nicotiana tabacum</i> L.	Yan Cao (Tobacco)	(leaf) Nicotine, nicotimine, nicotine, nicotelline. ⁶⁰ This herb is toxic.	Treat soreness in the joints, numbness, hemicrania, poisonous snakebites, insecticide, antidyenteric, emetic.
<i>Nothosmyrnum japonicum</i> Miq.	Hao Mu	(root) Essential oil, nothosmyrnl, dimethoxyallylbenzene. ⁴⁹	Cerebral sedative, analgesic, antispasmodic.
<i>Notopterygium incisum</i> Ting	Giang Huo	(root) Notoptero, isoimperatorin, falcariindiol, essential oils, limonene. ⁵³	Antirheumatic, for arthritis, cold, excessive sweating.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Nuphar japonicum</i> DC <i>N. pumilum</i> (Timm) DC	Japan Pin Peng Cao (Yellow pond lily)	(seed, root) Nupharamine, sitosterol, palmitic acid, oleic acid. ^{74,75}	For digestive organs, increases body strength.
<i>Nymphaea tetragona</i> Georgi <i>N. tetragona</i> Georgi var. <i>crasifolia</i> (Hand. Mazz.) Y. C. Chu	Shui Lian (Pigmy water lily)	(flower, leaf, root) Amino acids. ⁴⁸	A cooling lotion to apply to eruptive fevers, treat colic, gonorrhea, lower blood pressure.
<i>Oenothera biennis</i> L. <i>O. odorata</i> Jacq.	Shan Zhi Ma Ri Jian Cao	(seed oil, root) 6,9,12-octadecatrienoic acid. ⁴⁸	Lower cholesterol, regulate heart beat, treat arthritis.
<i>Oenothera javanica</i> (BI) DC	Shui Jin	(seed, leaf) Bis (2-ethyl butyl) phthalate, n-butyl-2-ethyl butyl phthalate, diethyl phthalate, myrcene, alpha-pinene, terpinolene, limonene, beta-pinene, alpha-terpinene, persicarin, petroselinic acid. ^{48,50}	For plethora, cholera, dysuria, fever, hematuria, influenza, jaundice, metrorrhagia, antivenous, hemostat. Externally for abscesses, cancerous swelling, snakebite.
<i>Oenothera terythrosepala</i> Borbus	Da Ri Jian Cao	(root) Linolenic acid. ⁵³	
<i>Oldenlandia chrysotricha</i> L. <i>O. corymbosa</i> L.	Shi Da Chuan Shui Xian Cao	(leaf) Biflorine, biflorone, gamma-sitosterol, stigmasterol, ursolic acid, oleanolic acid. ⁵⁰	Ferbrifuge, for hepatomegaly, lymphadenitis, neoplasia, splenomegaly.
<i>Oldenlandia diffusa</i> L.	Bai Hua Shi Shi Cao	(aerial part) Asperuloside, palderoside, desacetylasperuloside, beta-sitosterol, stigmasterol, ursolic acid, oldenlandoside. ³³	Treats malignant tumors, hepatomas, hepatomegaly, cancer of the cervix, esophagus, stimulates reticuloendothelial system.

<i>Omphalia lapidescens</i> Baill.	Lei Wan	(sclerotium) ⁵⁰ Glucan, OL-2. ²⁰⁹	Antitumor, treat ascariasis, taeniasis, ankylostomiasis.
<i>Onychium japonicum</i> (Thunb.) Kunze.	Japan Jin Fen Ju	(spores, aerial part) Kaempferol-rhamnoside. ⁵⁶	To relieve chest and abdominal pains, stop bleeding, diuretic, detoxicant, intestinal infection.
<i>Ophioglossum japonicus</i> (Thunb.) Ker-Gawl.	Mai Dong	(root) Beta-sitosterol. ⁶⁹	Depurative, a tonic, thirst-quenching or sialagogue, treat phthisis.
<i>Ophioglossum vulgatum</i> L.	Yi Zhi Jian (Adder's tongue)	(whole plant) 3-O-methylquercetin. ³³	As a hemostatic, abscesses, treat gangrene. Externally treats snakebite.
<i>Ophiopogon gracilis</i> Kunth. <i>O. longifolius</i> Decne. <i>O. spicatus</i> Ker-Gawler	Mai Meng Dong (Lilyturf)	See <i>Liriope spicata</i>	
<i>Ophiopogon japonicus</i> Wall.	Yan Jie Cao or Mar Dong (Japanese lilyturf)	(root) Beta-sitosterol, stigmasterol, ophiopogenins, polysaccharides, kaempferol-3-glucosylgalactoside. ^{33,50}	Antitussive, expectorant, emollient, anticancer. Smooth lung functions, stop coughing.
<i>Ophiorrhiza japonica</i> Blume <i>O. mungos</i> L.	Japan She Gen Cao She Gen Cao	(whole plant) Resin, alkaloid, beta-sitosterol, 5 alpha-ergost-en-3 beta-ol, 5 alpha-ergost-8(-14)-en-3B-ol, tannates, hydrogen cyanide. ⁵⁰	For circulatory and pulmonary ailments.
<i>Oplopanax elatus</i> (Nakai) Nakai	Ci Seng	(stem, root) Essential oil, echinopanacene, n-caprylaldehyde, echinopanacol, oplopanaxosides, flavonoids. ^{48,50,72,354}	A remedy and tonic for progressive emaciation.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Orchis latifolia</i> L.	Hong Men Lan	(whole plant) Alkaloids. ^{48,359}	Sialagogue, treat anemia.
<i>Oryza sativa</i> L.	Nou Me (Rice)	(whole plant) Isoleucine, leucine, lysine, phenylalanine, tyrosine, amino acids, methioine, threonine, tryptophane, valine. ⁵⁰	For dysentery, gout, rheumatism, hemorrhoids, an astringent, anhydrotic, anuria.
<i>Osmanthus fragrans</i> (Thunb.) Lour.	Mu Gui, Gui Hua (Cassia tree)	(flower) Beta-phellandrene, osmane, nerol, methyl-laurate, methylmyristate, methypalmitate, uvaol. ³³	Reduce phlegm, remove blood stasis.
<i>Osmunda japonica</i> L.	Zi Kee Guan Zhong (Japanese royal fern)	(whole plant) Ponasterone A, ecdysterone, custeodyesine, ecdysone. ³³	Anthelmintic, treat inflammation of the salivary glands.
<i>Oxalis corriculaza</i> L. <i>O. corymbosa</i> DC	Sha Jiang Cao (Wood sorrel)	(leaf) Oxalate, vitamin C, calcium, citric acid, malic acid, tartaric acid. ⁵⁰	Antidote to arsenic and mercury, for bruises, clots, diarrhea, fever, influenza, snakebite, urinary infections.
<i>Oxyria digyna</i> (L.) Hill	Gao Shan Liao	(whole plant) Protein, fat, ash, carbohydrate, retinol, mineral elements. ^{48,210}	For hepatitis.
<i>Pachyrhizus thunbergianus</i> Sieb. et Zucc.	Ge Gen (Kudzu vine)	See <i>Pueraria thunbergiana</i>	

<i>Paeonia albiflora</i> Pall. <i>P. edulis</i> Salisb. <i>P. japonica</i> (Makino) Miyabe. et Takeda <i>P. lactiflora</i> Pall. <i>P. lactiflora</i> Pall. var. <i>trichocarpa</i> (Bunge.) Stern <i>P. moutan</i> Sims. <i>P. officinalis</i> L.	Bai Shao, Shao Yao (Peony, tree peony)	(root) Benzoic acid, paeoniflorin, oxypaeoniflorin, albiflorin, benzoyl paeoniflorin, acetylsalicylic acid. ^{14,15,226,510}	Carminative, antispasmodic, analgesic, sedative.
<i>Paeonia obovata</i> Maxim. <i>P. mourian</i> Sim. <i>P. suffruticosa</i> Anders. <i>P. veitchii</i> Lynch.	Mu Dan Pi (Tree peony)	(root bark) Paeonol, paeonoside, paeonin, pelargonin, paeonolide, astragalin (paeoniflorin contained in <i>P. mourian</i>). ^{1,2,33}	Sedative, antipyretic, analgesic actions.
<i>Panax ginseng</i> C. A. Meyer <i>P. pseudoginseng</i> Wall.	Ren Seng (Ginseng)	(root) Triterpenoid, quinquenosides, ginsenosides, oleanolic acid, panaxynol, beta-elemene, spemine, putrescine, spermindine. ^{26,53,510,511}	A stimulant, tonic, expectorant.
<i>Panax japonicum</i> C. A. Meyer	Zhu Je Seng (Japanese ginseng)	(rhizome) Saponins including chikusetsa saponin II and chikusetsa saponin IV, ginsenoside R _g . ^{25,33}	A stimulant, tonic, expectorant.
<i>Panax notoginseng</i> (Burk) F. H. Chen	Tian Qi	(root) Ginsenosides, panaxatriol, panaxadiol, dencichine, saponins flavonoids. ^{53,425}	A stimulant, tonic expectorant, anti-inflammatory.
<i>Panax quinquefolium</i> L.	Xi Yang Seng (American ginseng)	(root) Ginsenosides, phytosterols. ²⁶	Stimulating effect on central nervous system, antifatigue.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Panax zingiberensis</i> C. Y. Wu & K. M. Feng	San Qi	(root) Saponins including arasaponins, panaxadiol, panaxatriol. ³³ This herb is mildly toxic.	Arrest bleeding, remove blood stasis, relieve pain. Treat angina pectoris, hemorrhagic diseases.
<i>Papaver amurense</i> (N. Busch) N. Busch ex Tolmatchev. <i>P. nudicaule</i> L. <i>P. radicatum</i> Rottb. var. pseudoradicatum (Kitag.) Kitag.	Ying Su (Poppy)	(whole plant) Amurine, amuroline, amuroine, coptisine, nudaaurine, muramine, nudicaulin. ⁴⁸	For cough, headache, intestinal infection, blood in the urine, stomach ulcer.
<i>Papaver rhoeas</i> L.	Li Chun Hua (Corn poppy)	(flower, root) Rhoeadine, rhoegenine. ⁷²	For jaundice, as a gargle or ingested as bechic.
<i>Papaver somniferum</i> L.	Yu Mei Ku (Opium poppy)	(whole plant) Berberine, codeine, papaverine, isocorypalmine, laudanine, magnoflorine, meconine, 6-methylocodine, morphine, narcotine, pseudomorphine, rhoeadine, sanguinarine, beta-sitosterol, stigmasterol, thebaine, zanthaline. ⁵⁰	Antitussive, antispasmodic, analgesic, astringent, narcotic, treat chronic enteritis, diarrhea, enterorrhagia, headache, toothache, asthma.
<i>Paracyclea insularis</i> Kudo et Yamamoto	Tu Fang Ji	(root) Insulanoline, insularine, iso-chondrodendrine. ⁵⁸	Treat headache, throat pain, arthritis pain, externally for snakebite.
<i>Paracyclea ochiaiana</i> Kudo et Yamamoto	Taiwan Tu Fang Ji	(stem) Insularine. ⁵⁸	Relieve pain caused by arthritis, headache.
<i>Parechites adnascens</i> Hance <i>P. thunbergii</i> A. Gray	Luo Shi	See <i>Trachelospermum jasminoides</i>	

<i>Parietaria micrantha</i> Ledeb.	Qiang Cao	(root, vine) Protocatechuic acid. ⁵⁰	For fractures, hemorrhage, lumbago, myalgia, numbness, renitis, rheumatism.
<i>Paris polyphylla</i> Smith <i>P. quadrifolia</i> L.	Zao Xiu (Himalayan paris)	(root) Alpha-paristypnin, diosgenin glycosides, furostanol, spirostanol saponins. ^{50,506}	Antispasmodic, anti-inflammatory, febrifuge, anti-tumor.
<i>Parnassia palustris</i> L.	Mei Hua Cao	(whole plant) Kaempferol, hyperin. ⁴⁸	Treat diarrhea, liver infection, cough.
<i>Parthenocissus tricuspidata</i> Planchon.	Di Jin (Boston ivy)	(root, stem) Cyanidin, lysopine, octopinic acid, fatty acids. ⁴⁸	Treat arthritis, stomachic, headache, blood in the stool.
<i>Patrinia heterophylla</i> Juss.	Mu Tou Hui	(root) Essential oils. ⁴⁸	Stimulate circulation, eliminate blood stasis in cancers of the blood and cervix.
<i>Patrinia scabiosaefolia</i> Fisch ex Link.	Ye Huang Hua or Bai Jiang Cao	(leaf) Essential oils, patrinoside, isopatrinen. ^{33,50}	Antidote, astringent, anodyne. Treat insomnia caused by neurasthenia or acute infections.
<i>Pedicularis resupinata</i> L. <i>P. resupinata</i> L. f. pubescens Kom. <i>P. resupinata</i> L. f. ramosa Kom.	Ma Xian Gao (Lousewort)	(whole plant) Alpha-amyrin, beta-amyrin, betulinic acid, cholesterol, kaempferol. ^{50,218}	Used in fever, leucorrhea, rheumatism, sterility, urinary difficulties, anti-inflammation, dryness of the mouth, tongue, and tinnitus.
<i>Pericamylus formosanus</i> Diels	Peng Lai Teng (Salt vine)	(whole plant) Narcotic alkaloid, mucilage. ⁵⁰	Antirheumatic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Perilla frutescens</i> (L.) Britt. <i>P. ocymoides</i> L. <i>P. ocymoides</i> L. var. <i>crispa</i> Benth. <i>P. polystachya</i> D. Don (Syn. <i>Elsholtzia cristata</i>) <i>P. arguta</i> Benth	Xiang Xu (Perilla) Zi Su	(leaf) Perilladehyde, l-perilla, aldehyde, apigenin, luteolin, limonene, beta-caryophyllene, alpha-bergamotene, linalool, 3-p-coumarylglycoside-5-glucoside of cyanidin, 7-caFFEyl-glucosides of apigenin and luteolin, anthocyanins. ^{33,50,249,264}	Antibacterial, antitussive, stomachic, antiseptic.
<i>Periploca sepium</i> Berge.	Xiang Jia Pi (Silk vine)	(root bark) Steroid glycosides, carenolide, periplocin, pregnenes(low toxicity). ^{29,33}	Antirheumatic, cardiotoxic.
<i>Persicaria amphibia</i> (L.) S. F. Gray	Liang Xi Liao	(whole plant) Hyperoside, avicularin, quercetin, kaempferol, quercimeritrin, luteolin-7-glucoside. ⁴⁸	Treat diarrhea.
<i>Persicaria hydropiper</i> (L.) Spach.	Shui Liao	(whole plant) Tadeonal, polygodiol, isotadeonal, confertifolin, polygonone, persicarin, quercetin, rhamnazin, quercitrin, quercimeritrin, hyperin, leucoanthocyanins. ⁴⁸	Antitoxin, insecticide, relieve itchiness, stop bleeding.
<i>Persicaria orientalis</i> (L.) Spach.	Hong Cao	(fruit, whole plant) Orientin, orientoside, vitexin, plastoquinone. ⁴⁸	Treat arthritis, relieve swelling, diuretic.

<i>Petasites japonicus</i> F. Schmidt	Feng Dou Cai	(flower, root, leaf) Beta-sitosterol, beta-carotene, thiamine, riboflavin, niacin, ascorbic acid. ⁵⁰	For colds, asthma, cough, dyspnea, tuberculosis.
<i>Peucedanum decursivum</i> Max.	Qian Hu (Hogfennel)	(root) Glycoside nodakenin. ⁴⁹	Analgesic, antipyretic, antitussive, treat headache, bronchitis, asthma, pertussis.
<i>Peucedanum formosanum</i> Hayata	Taiwan Qian Hu	(root) Anomalin, coumarin, peuformosin. ⁵⁶	Cooling function, relieve pain, cough, treat cold, headache.
<i>Peucedanum japonicum</i> Thunb. <i>P. praeruptorum</i> L. <i>P. rubricaulis</i> Shan et Shch.	Fang Kui	(root) Nodakenetin, nodakenin, decursidin, umbelliferone, pencordin, qianhucocoumarin, rubricauloside. ^{33,247}	Antitussive, expectorant.
<i>Pharbitis diversifolia</i> Lindl. <i>P. hederacea</i> Choisy <i>P. nil</i> (L.) <i>P. triloba</i> Miq.	Qian Niu Zi (Morning glory)	(seed) Glycoside pharbitin, gibberellin, pharbitic acid. ^{33,144} This herb is toxic.	Potent purgative, purge parasites, ascaris, and taenia. Treat constipation, edema.
<i>Phaseolus angularis</i> (Willd.) W. F. Wight <i>P. lunatus</i> L. <i>P. radiatus</i> L. <i>P. vulgaris</i> L.	Jin Jia Dou (Black gram)	(seed, leaf) Alpha-globuline, beta-globulin, fatty acids, vitamins A, B, and B ₂ , robinin, kaempferol-3- robinobiosido-7-rhamnoside. ⁴⁸	Diuretic, for abscesses, beri- beri, dysentery, sores, swelling.
<i>Phellodendron amurense</i> Rupr. <i>P. amurense</i> Rupr. f. <i>molle</i> (Nakai) Y. C. Chu <i>P. chinensis</i> Schneid	Huang Bai (Cork tree)	(bark) Berberine, palmatine, candicine, phellodendrine, obacunone. ³³	Antibacterial, stimulate the phagocytic activity of leukocytes, against dysentery.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Photinia serrulata</i> Lindl.	Shi Nan Ye (Photinia)	(leaf) Hydrocyanic acid, tannins. ⁴⁹	Tonic and stimulant in neurasthenia, impotence, spermatorrhea, amenorrhea, infecundity.
<i>Phragmites communis</i> Trin.	Lu Gen (Reed)	(root) Glycosides, protein, asparagin. ⁴⁹	As stomachic, antiemetic, antipyretic. Treat arthritis, jaundice, pulmonary abscess.
<i>Phyllanthus emblica</i> L.	Ye Gan Zi	(whole plant) Chebulinic acid, mucic acid, alpha-leucodelphinidin, vitamin C. ^{33,307}	For conjunctivitis, diarrhea, abdominal tumors, nephritis, urogenital ailments.
<i>Phyllanthus simplex</i> Ketziu	Dan Ye Xiz Zhu	(leaf) Alpha-ketoglutaric acid, simplexine. ^{57,211,212}	Treat sore eyes, hepatitis, mammary gland infection.
<i>Phyllanthus urinaria</i> L. <i>P. niruri</i> Li <i>P. reticulatus</i> Poiret	Ye Xia Zhu Zhu Zi Cao	(fruit, leaf) Phyllanthine, phyllantidine. In leaf, phyllanthin, hypophyllanthin, niranthin, nirtetralin, phylteralin. ³³	Treat coughing, promote digestion and secretion.
<i>Phyllanthus virgatus</i> Forster	Xi Ye Zhu Chi Cao	(whole plant) Vitamin C, amino acids. ⁵⁷	Treat hepatitis, cold, fever, blood vomiting, diarrhea.
<i>Phyllodium pulchellum</i> (L.) Desvaux.	Pai Qian Shu	(whole plant) Bufotenine, N,N-dimethyltryptamine, N,N-dimethyltryptamine oxide, framine, physcim-l-glucorhamnoside. ⁵⁴	Diuretic, relieve swelling, treat cold, pain, regulate menses.

<i>Phyllostachys bambusoide</i> Sieb. et Zucc. <i>P. nigra</i> Munro. var. <i>henonis</i> Mak.	Chu Ye (Timber bamboo)	(leaf, shoot) Benzoic acid, silica, potassium hydroxide, aluminum oxide, iron oxide, calcium.	Antipyretic, hematuria, sedative, antiemetic, antispasmodic in catarrh.
<i>Physalis alkekengi</i> L. var. <i>francheti</i> (Mast.) Makino	Jin Deng Long (Chinese lantern)	(calyx, fruit) Physanols, physalien, zeaxanthin, glycolic acid, cryptoxanthin, physoxanthin, mutaxanthin, auroxanthin, physalin A, B, and C, luteolin, tigloidine, physalins, hystonin. ^{33,48}	Antibacterial, stimulate myocardial contraction, cause vasoconstriction, uterine contraction.
<i>Physalis angulata</i> L.	Ku Zhi (Groundcherry)	(fruit, leaf) Hystonin. ⁶⁰ Overdose may cause dizziness.	Antifebrile, laxative, diuretic, causing uterine contractions.
<i>Physochlaina infundibularis</i> Kuang.	Hua Shan Seng	(root) Hyoscyamine, scopolamine, scopoletin, scoplin. ³³ This herb is toxic.	A cholinergic blocking agent, relaxing effect on bronchial muscles.
<i>Phytolacca acinosa</i> Roxb. <i>P. americana</i> L. <i>P. japonica</i> Makino <i>P. kaempferi</i> A. Gray <i>P. octandra</i> Bge. <i>P. pekinensis</i> Hance	Shang Lu (Pokeberry)	(root) Phytolaccine, phytolaccatoxin, oxyristic acid, jaligonic acid, saponins. ^{33,144} This herb is toxic.	Antitussive, diuretic, antibacterial, anti-inflammatory.
<i>Picrasma quassioides</i> (D. Don) Benn. <i>P. quassioides</i> (D. Don) Benn. f. <i>dasycarpa</i> Kitag.	Ku Shu	(stem bark) 2,4-dichloro-6-aminopyridine, 4,5-dimethoxycanthin-6-one, 2,6-dimethoxy-p-benzo-quinone, methyl nigakinone, picrasmin, nigakihemiacetal A, nigakilactone A, nigakinone, quassin. ⁵⁰	Treat fever, stomachache.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Picrorhiza kurroa</i> Royle.	Hu Huang Lain	(root) Cathartic acid, picrorhizin, kurrin, aglycone, kutkin, vanillic acid. ^{49,450}	Antipyretic, stomachic.
<i>Pileostegia viburnoides</i> Hooker f. Thomson	Ching Mian Hua	(whole plant) Lunularic acid, abscisic acid, quercetin, leucocyanidin. ⁵⁷	Treat arthritis.
<i>Pimela alba</i> Lour.	Gan Lan	See <i>Canarium album</i>	
<i>Pimpinella thellungiana</i> Wolff <i>P. thellungiana</i> Wolff var. <i>tenuisecta</i> Chu	Hui Qin (Aniseed)	(leaf, root, seed) Ilungianin A, ilungianin B. ^{50,220}	A stimulant, anodyne, hypotensive, treat choleraic infections and flatulence.
<i>Pinellia ternata</i> (Thunb.) Breit. <i>P. tuberifera</i> Tenore	Ban Xia	(tuber) l-ephedrine, choline, amino acids. ^{33,144} This herb is toxic.	Antiemetic, antitussive and antidote for strychnine intoxication.
<i>Pinus bungeana</i> Zucc. ex Endl. <i>P. densiflora</i> Sieb. et Zucc. <i>P. koraiensis</i> Sieb. et Zucc. <i>P. sylvestris</i> L. var. <i>mongolica</i> Litv. <i>P. sylvestris</i> L. var. <i>sylvestriformis</i> (Takenouchi) Cheng et C. D. Chu <i>P. tabulaeformis</i> Carr.	Song Ta (Pine)	(cone) Essential oil, limonene, pinitol. ³³	Antitussive, antiasthmatic, antibacterial.
<i>Piper cubeba</i> L.	Bi Cheng Qie (Cubeb, tailed pepper)	(unripe fruit) Cubebin, dipentene, cadinene, cineol, carene, camphene, pinene, sabinene, azulene, terpineol. ⁴⁹	Urinary antiseptic, stomachic, carminative.

<i>Piper longum</i> L.	Bi Ba (Indian long pepper)	(fruit) Volatile oil, piperine,	Antipyretic, carminative, aromatic stomachic, analgesic in gastralgia, flatulence, headache.
<i>Piper nigrum</i> L.	Hu Jiao (Black pepper)	(fruit) Piperine, chavicine, piperamine, piperonal, dihydrocarveol, cryptone, caryophyllene. This herb may cause irritation to the system. ^{33,45}	Anticonvulsive, sedative.
<i>Pistacia lentiscus</i> L.	Ru Xiang	(resin) Masticinic acid, masticonic acid, masticoresene, fisetin, fustin, gallic acid, quercetin, taxifolin. ^{49,50}	Antitumor, antitussive, analgesic, sedative in gastralgia, cardiodynia, mastitis, peptic ulcer.
<i>Pittosporum tobira</i> (Thunb.) Aiton	Hi Tong	(bark) Dihydroterpene, heptane. ⁶⁰	Treat dysentery and rheumatism.
<i>Plantago asiatica</i> L. <i>P. depressa</i> Willd. <i>P. exaltata</i> Horn. <i>P. loureiri</i> Roem. et Schult. <i>P. major</i> L. <i>P. major</i> L. var. <i>asiatica</i> DC	Che Chen Zi (Plantain)	(seed) d-xyllose, l-arabinose, d-galacturonic acid, l-rhamnose, plantasan, plantenolic acid, plantagin, homoplantagin, aucubin, ursolic acid, hentriacontane. ^{48,510}	Diuretic, expectorant, intestinal infection, diarrhea caused by bacteria.
<i>Platyclusus orientalis</i> (L.) Franco.	Ce Bai Ye	See <i>Thuja orientalis</i>	
<i>Platycodon autumnalis</i> Decne. <i>P. grandiflorum</i> DC <i>P. sinensis</i> Lam.	Jie Geng (Kikio root)	(root) Platycodigenin, polygalacic acid, platycodigenic acids, platyconin, prosapogenin, betulin, 3-O- β -glucosylplatycodigenin, platycodosides, spinasterols, platycodonin. ^{23,33,48,510}	An expectorant, antitussive, analgesic.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Plumbago zeylanica</i> L.	Bai Hua Teng (Ceylon leadwort)	(root) Plumbagin, glucose, fructose, protease, invertase, plumbagin, naphthaquinone, slliptinone, 3-chloroplumbagin. ^{50,450}	Bactericidal, antifertility.
<i>Plumeria rubra</i> L.	Hong Je Dan Hua (Frangipani)	(leaf, stem bark, flower) Agoniadin, cerotinic acid, fulvoplumierin, lupeol, plumieric acid, plumieride, quercetin, pectins, plumieric acid, cerotic acid, acetyl lupeol, essential oils, geraniol, citronellol, farnesol, phenylethyl alcohol, linalool, kaempferol, aldehydes, ketones. ⁵⁰	Inhibits the tuberculosis bacterium, fungicidal, stimulant, emmenagogue, febrifuge, purgative, for dropsy, herpes and venereal infections.
<i>Podocarpus macrophyllus</i> (Thunb.) D. Don	Luo Han Song (Southern yew)	(stem bark, leaf, root, fruit) Pinene, camphene, cadinene, podocarpene, neocryptomerin, kaurene, ecdysterone, ponasterone, makisterones, hinokiflavone, sciadopitysin, podocarpus flavones, macrophyllic acid, podototar, totarol. ⁵⁴	For ringworms, blood disorders, tonic for heart, kidneys, lungs, stomach.
<i>Podophyllum peltatum</i> L. <i>P. pleianthum</i> Hance	Ba Jian Lian (Podophyllum)	(rhizome) Podophyllotoxin, flavonoids, desoxypodophyllotoxin. ⁵ This herb is toxic.	An antitumor agent.

<i>Pogostemon cablin</i> Benth.	Huo Xiang (Patchouli)	(branch, leaf) Essential oils. ⁶⁰	Antiseptic, for abdominal pain, cold, diarrhea.
<i>Polyanthus narcissus</i> (Syn. <i>Narcissus tazetta</i>)	Shui Shai Gen	See <i>Narcissus tazetta</i>	
<i>Polygala japonica</i> Houtt <i>P. sibirica</i> L. <i>P. tatarinowii</i> Regel.	Su Cao (Milkwort)	(rhizome, bark) Saponins, tenuidine, tenuifolin (prosenegenin). ^{28,33}	Stimulate bronchial secretions, antibacterial.
<i>Polygala tenuifolia</i> Willd.	Yuan Zhi	(root) Onjisaponin A, onjisaponin B. ²⁴	Sedative, strengthen nervous system.
<i>Polygonatum chinense</i> Kunth. <i>P. cirrhifolium</i> Royle. <i>P. macropodium</i> Turez. <i>P. officinale</i> All. <i>P. sibiricum</i> Delar. ex Redoute <i>P. stenophyllum</i> Maxim. <i>P. odoratum</i> (Mill.) Druce var. <i>pluriflorum</i> (Miq.) Ohwi f. <i>ovarifolium</i> Y. C. Chu <i>P. vulgare</i> Desf.	Huang Ging (Solomon's seal) Jiang Sun	(root, stem) Convallarin, convallamarin, steroidal saponin POD-II, beta-sitosterol, mucilage. ^{49,245}	Stimulate the appetite, increase peristalsis, slow the heart and raise the arterial tension, slow and deepen respiration, purgative.
<i>Polygonum aviculare</i> L. <i>P. aviculare</i> L. var. <i>vegetum</i> Ledeb. <i>P. lapidosa</i> Kitag. <i>P. manshuriensis</i> Komarov <i>P. vivipara</i> (L.) S. F. Gray	Bian Xu (Knot grass)	(aerial part) Avicularin, tannins, vitamin E, mucilage, gallic, caffeic, guercitrin, chlorogenic, osalic, silicle, p-coumaric acids, d-catechol, leucoanthocyanins. ^{33,60,450}	Treat urethritis, lithiasis, and chyluria. Anti-inflammatory, against dysentery and parotitis, an antiangina agent.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Polygonum bistorta</i> L.	Cao He Che (Snakeweed, bistort)	(stem, root) Iodine, oxalic acids, coumarins, hydroxycinnamic acids, ether oil, hydroxybenzoic acids, hydrocyanic acids, anthocyanidines, carotenes, anthraquinones, phytosterines, monoterpene, sesquiterpene glucoside, caffeic acid, quercimeritrin, avicularin, gallic acid, protocatechuic acid. ^{50,221,222,223,224}	Diuretic, laxative, hemostatic, antifebrile.
<i>Polygonum cuspidatum</i> Siebold & Zucc.	Hu Chang (Japanese knotweed)	(stem, root) Polygonin, glucofragulin, emodin, polydatin, flavonoids. ³³	Treat hypercholesterol.
<i>Polygonum hydropiper</i> L.	La Lian (Water pepper)	(whole plant) Persicarin, rhamnazin, isotadeonal, quercimeritrin, tadeonal. ³³	Improve indigestion, treat dysentery and enteritis.
<i>Polygonum multifolrum</i> Thunb. <i>P. chinensis</i> L.	He Shou Wu Huo Tan Mo Cao (Hill buckwheat)	(root, stem, leaf) Chrysophenol, emodin, emodin methyl ester, rhein, glycoside raphantin, lecithin, parietin, chrysophanic acid, anthron. ^{33,49,54,442}	A laxative, detoxicant for boils. Treat neurosis, neurasthenia, insomnia, hypercholesterolemia.
<i>Polygonum orientale</i> L.	Shui Hong Cao (Prince's feather)	(whole plant) Orientin, vitexin, isovitexin, isoorientin, plastoquinone-9. ³³	Antibacterial.

<i>Polygonum perfoliatum</i> L. <i>P. tinctorium</i> Lour.	Gang Ban Gui Ban Lan Geng (Chinese indigo)	(leaf) Flavonoids, amino acids, organic acids, sugar, indican, emodin, chrysophanol, protein. ⁵⁶	Cooling property, relieve swelling, blood circulation, detoxicant, diarrhea. Juice is dropped into the ear to cure deafness.
<i>Polyporus umbellatus</i> (Pers.) Fr.	Zhu Ling	(dried fungus) Ergosterol, biotin, protein. ³³	Diuretic, stimulate the immune system, anticancer.
<i>Poncirus trifoliata</i> Rafin	Gou Gi (Trifoliate orange)	(fruit) Poncirin, limonin, imperatorin, bergapten, neohesperidin, citrifoliol, myrcene, camphene, gamma-terpinene. ³³	Treat gastric pain, constipation, and prolapse of the uterus or rectum.
<i>Pongamia pinnata</i> (L.) Pierre ex Merrill.	Shui Huang Pi	(bark) Behenic acid, gamatin, kaempferol, kanugin, karanjin, pinnatin, pongapin. ⁵⁰	Antiseptic.
<i>Populus alba</i> L. <i>P. davidiana</i> Dode <i>P. tomentosa</i> Carr.	Yin Bai Yang (White poplar)	(leaf, stem bark) Salicin, populin, benzoyl salicin, tannins, erisin, salicinase, salicortin, tremulacin, salireposide. ⁵⁰	Depurative, for colic, eczema, herpes, labialis, fever, dysuria, antiseptic, antiperiodic.
<i>Poria cocos</i> (Polyporaceae) (Syn. <i>Sclerotium cocos</i>)	Fu Ling	(fungus body) Pachymic acid, tumulosic acid, eburicoic acid, pinicolic acid, pachymarose. ³³	A diuretic, cardiotonic, it has tranquilizing effect, lower blood sugar levels, it is antibacterial and anticancer.
<i>Portulaca grandiflora</i> Hooker	Song Ye Mo (Purslane)	(whole plant) Portulal, betacyanin, betanin, betanidin. ⁵⁵	Treat throat swelling and pain, externally for burns, wounds and infections.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Portulaca oleracea</i> L.	Ma Chi Xian (Purslane)	(aerial part) Potassium salts, catecholamines, norepinephrine, dopamine, vitamin A, vitamin B, magnesium. ^{33,49}	Antibacterial, diuretic, causes vasoconstriction, stimulates uterine and intestinal smooth muscle contraction.
<i>Portulaca pilosa</i> L.	He Que She	(aerial part) Tannins, phosphates, magnesium, iron, aluminum, manganese, calcium, potassium, sodium, urea. ⁶⁰	Antihemorrhagic, antiscorbutic, vulnerary properties.
<i>Potentilla bifurca</i> L. var. <i>canescens</i> Bong. et Mey. <i>P. bifurca</i> L. var. <i>glabrata</i> Lehm. <i>P. chinensis</i> Seringe <i>P. discolor</i> Bunge. <i>P. fragarioides</i> L. <i>P. fragarioides</i> L. var. <i>major</i> Maxim. <i>P. freyaiana</i> Bornmuller <i>P. kleiniana</i> Wight & Arnott var. <i>robusta</i> (Franch. & Savat.) Kitag.	Wei Ling Cai (Wolfstooth, cinquefoil)	(leaf) D-catechin. ⁵⁰ This herb is toxic. ⁶⁰	Antibacterial, antiplasmodium, smooth muscle relaxation, gynecological bleeding.
<i>Poterium officinale</i> Benth.	Di Yu (Ground elm)	See <i>Sanguisorba officinalis</i>	

<i>Primula sieboldii</i> E. Morren var. <i>patens</i> (Turcz.) Kitag. <i>P. asiatica</i> Nakai <i>P. asiatica</i> Nakai f. <i>albiflora</i> (Koidz.) Kitag. <i>P. asiatica</i> Nakai f. <i>lilacina</i> (Nakai) Kitag. <i>P. vulgaris</i> L.	Yin Cao	(whole plant) Primulagenin A, aegicerin, protoprimulagenin A. ⁴⁸	Relieve cough, throat infection.
<i>Prunella vulgaris</i> L.	Xia Ku Chao (Heal-all)	(leaf) Caffeic acid, d-camphor, cyanidin, delphinidin, d-fenchone, hyperoside, oleanolic acid, rutin, ursolic acid. ^{48,450}	Antibacterial, antipyretic, cardiac tonic, diuretic, anticancer.
<i>Prunus armeniaca</i> L.	Xing Ren (Apricot)	(kernel) Amygdalin, prunasin, fatty acids, mandelonitrile (enzyme amygdalase can hydrolyze amygdalin to produce cyanic acid). ^{33,53}	Stimulate respiratory center reflexively and produce a tranquilizing effect.
<i>Prunus domestica</i> L. <i>P. glandulosa</i> Thunb. <i>P. japonica</i> Thunb.	Yu Lee Ren (Dwarf flowering cherry)	(leaf, fruit) Amygdalin, citric acid, fatty acids. ⁵³	Diuretic, laxative.
<i>Prunus mume</i> (Sieb.) Sieb. et Zucc.	Wu Mai (Black plum)	(fruit) Prudomenin, malic acid, succinic acid, citric acid, tartaric acid, amygdalin. ^{33,53}	Treat biliary ascariasis and hookworm.
<i>Prunus padus</i> L.	Chou Lee	(fruit, leaf) Hyperin, quercetin-3-galactoxylo-glucoside, nonacosane, beta-sitosterol, lupeol, amygdalin, fatty acids. ⁴⁸	Treat diarrhea, cough.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Prunus persica</i> (L.) Batsch.	Tou Ren (Peach)	(leaf, flower, fruit) Malic acid, citric acid, octalactone, leucoanthocyanins, tannins, hexalactone, hectalactone, benzyl alcohol, nonalactone, decalactone, ethanol, hexanol, acetadehyde, benzaldehyde, acetic acid, pentanoic acid, hexanoic acid. ⁵⁰	Astringent, febrifuge, parasiticide, diuretic, sedative, vermifuge.
<i>Pseudostellaria heterophylla</i> (Miq.)	Tai Zi Shen (Gorden latch)	(root) Fructose, starch. ⁴⁸	A tonic for lung disease, used as an appetizer.
<i>Psidium guajava</i> L.	Fan Shi Lui (Guava)	(fruit) Avicularin, guajaverin, arabinose ester, amritoside, crataegolic acid, luteioic acid, argamolic acid. ³³	Treat dysentery and acute gastrointestinal inflammation.
<i>Psoralea corylifolia</i> L.	Bu Gu Zi (Scuffy pea)	(fruit) Psoralen, angelicin, psoralidin, coryfolin, bavachinin, isobavachin, corylifolinin, d-backuchiol. ³³	Coronary vasodilating effect, increase the myocardial contraction, antibacterial, anticancer.
<i>Psychotria rubra</i> (Lour.) Poir. <i>P. serpens</i> L.	Jiu Jie Mu Ling Bi Long (Red psychotria)	(leaf, stem) Alkaloids. ⁸³	A remedy for contusions, relieve pain of bruises, externally for swellings.
<i>Pteris cretica</i> L. <i>P. ensiformis</i> Burmann <i>P. multifida</i> Poir <i>P. vittata</i> L. <i>P. wallichiana</i> Agardh.	Feng Wei Cao (Brake)	(whole plant) Starch, filicic acid, tannins. ⁸⁴	Treat arthritis, dysentery, diarrhea.

<i>Pterocarya stenoptera</i> DC	Feng Yang (Wing nut)	(stem, leaf, bark) Salicylic acid, kino-tannic acid, pyrocatechine acid, protocatechinic acid. ^{48,60}	Diuretic, used on wounds and ulcers, hemorrhage, suppuration.
<i>Pueraria lobata</i> (Willd.) Ohwi. <i>P. pseudo-hirsuta</i> Tang.	Ge Gen (Kudzu)	(root) Isoflavones, daidzin, diadzin-4, 7-diglucoside, daidzein, puerarin, xylopurarin, robinin, kaempferol- rhamnoside, fatty acids. ^{12,33,48}	Antispasmodic, hypotensive, and stabilizing blood pressure, treat angina pectoris.
<i>Pueraria montana</i> (Lour.) Merrill. <i>P. thunbergiana</i> Benth.	Shan Ge	(root, leaf) Glutamic acid, butyric acid, asparagin, adenine. ⁴⁹	Antipyretic, refrigerant.
<i>Pulsatilla ambigua</i> Turcz. ex Pritz. <i>P. cernua</i> (Thunb.) Bercht. et Opiz. <i>P. chinensis</i> (Bunge.) Regel <i>P. chinensis</i> (Bunge.) Regel var. kissii (Mandl.) S. H. Li et Y. H. Huang	Bai Tou Went (Pasque flower)	(root) Protoanemonin, anemonin, okinalin, okinalein, ranunculin, saponins, triterpenoids. ^{33,426}	Antiamicrobial, antibacterial, treat amebic dysentery, anticancer
<i>Punica granatum</i> L.	Shi Liu Pi (Pomegranate)	(pericarp, root bark) Pelletierine, isopelletierine, methyloisopelletierine, methyl- pelletierine, pseudopelletierine, gallotannic acid, sitosterol, ursolic acid, maslinic acid, elegic and gallic acid. ^{33,450} This herb is toxic.	Purges intestinal parasites.
<i>Pyrethrum cinerariifolium</i> (L.) Trev. <i>P. sinense</i> DC	Chu Chong Jiu	(flower) Essential oil, adenine, choline, stachydrine. ⁴⁹	Sedative, refrigerant in headache, influenza.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Pyrola decorata</i> <i>P. incarnata</i> Fisch. ex DC <i>P. japonica</i> Klenze ex Alefeld <i>P. renifolia</i> Maxim. <i>P. rotundifolia</i> L.	Lu Xian Cao (Wintergreen)	(whole plant) Arbutin, homoarbutin, isohomoarbutin, chimaphillin, monotropin. ³³	Antibacterial, antiarrhythmic, lower blood pressure, hemostatic effect.
<i>Pyrrosia adnascens</i> (Sw.) Ching	Shu Long	(frond) Amygdalin, tannins, formic acid, tartaric acid, arbutin. ^{56,60,225}	Treat burns, a remedy for dysentery, diuretic, nerve pain.
<i>Pyrrosia lingua</i> (Thunb.) Farwell <i>P. petiolosa</i> (Chris.) Ching <i>P. sheareri</i> (Baker) Ching	Shi Wei (Felt fern)	(leaf) Isomangiferin, diplotene. ³³	Diuretic, treat urinary tract infections and urolithiasis.
<i>Quercus acutissima</i> Carr. <i>Q. aliena</i> Blume var. <i>acutiserrata</i> Maxim. ex Wenzig <i>Q. dentata</i> Thunb. <i>Q. liaotungensis</i> Koidz. <i>Q. mongolica</i> Fisch. ex Turcz. <i>Q. variabilis</i> Blume	Li Shu (Oak)	(stem bark, root) Lignin, cellulose, protein, pentosan, galactan. ⁵⁶	Promote absorption of tuberculous nodules, remedy for diarrhea, hypertrophy of the gastrointestinal tract, root makes a cleansing dressing for foul sores.
<i>Quisqualis grandiflora</i> Miq. <i>Q. indica</i> L. <i>Q. longifolia</i> Presl. <i>Q. loureiri</i> G. Don. <i>Q. pubescens</i> Burm. <i>Q. sinensis</i> Lindl.	Shi Jiun Zi (Rangoon creeper)	(fruit) Quisqualic acid, trigonelline. ^{33,235}	Treat internal parasites.
<i>Rabdosia lasiocarpus</i> (Hayata) Hara	Mao Guo Yan Ming Cao	(whole plant) Terpenes, oridonin, rubescensins, 5-fluorouracil. ⁵⁰ This herb is toxic.	For carcinomas of esophagus and stomach, antiarthritic, antidotal, febrifuge.

<i>Rabdosia rubescens</i> Hora	Dong Ling Cao	(aerial part) Rubescensine B, oridonin, tannic acid, ponididine, essential oils. ³³ This herb is toxic.	Treat esophageal cancer, malignant cancer.
<i>Ranunculus chinensis</i> Bunge.	Hui Hui Suan	(whole plant) Protoanemonin, anemonin, ranunculin. ⁴⁸	Relieve swelling, asthma, liver disorders, toothache, night blindness.
<i>Ranunculus japonicus</i> Thunb. <i>R. sarmentosa</i> Adams	Mao Liang (Japanese radish)	(whole plant) Anemonin, protoanemonin. ⁵⁰	Antitumor, sedative, bactericidal against bacillae of diphtheria, staphylococcus.
<i>Ranunculus sceleratus</i> L.	Shi Long Nei (Ground mulberry)	(whole plant) Ranunculin, anemonin, 5-hydroxytryptamine, serotonin, protoanemonin, pyrogallol tannins. ^{48,50} This herb is toxic.	Relieve swelling, pain, antitoxin, treat lymphatic gland disorders, antirheumatic.
<i>Ranunculus ternatus</i> Thunb.	Mao Zhua Chao	(leaf) Tannins, phenolic acids, volatile phenols, nonvolatile terpenic compounds, volatile carbonyl and S-containing compounds. ^{60,223}	Treat abscesses.
<i>Raphanus sativus</i> L.	Cai Fu (Radish)	(leaf, flower, seed, root) Raphanin. ⁵⁰	For asthma, cough, diarrhea, dysentery, eruptive fevers, bactericidal, antitumor.
<i>Rauvolfia verticillata</i> (Lour.) Baill.	Luo Fu Mu	(root) Reserpine, rescinnamine, beta-sitosterol, aricine, vellosimine, peraksine, serpentine, robinin. ^{33,39,510}	Treat hypertension, psychosis, schizophrenia.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Rehmannia chinensis</i> Fisch. <i>R. glutinosa</i> (Gaertn.) Libosch.	Di Huang (Chinese foxglove)	(root) Catalpol, campesterol, rehmannin, polysaccharide. ^{16,33}	Lower blood sugar, immuno-antitumor activity.
<i>Rhamnus davurica</i> Pall. <i>R. davurica</i> Pall. var. <i>nipponica</i> Makino <i>R. parvifolia</i> Bunge.	Shu Li (Buckthorn)	(fruit, root, stem bark) Emodin, chrysophanol, kaempferol, rhamnodiastase, aloe-emodin. ^{48,308} This herb is slightly toxic.	Insecticidal, treat respiratory infection, cough, improve bowel movement.
<i>Rhaponticum uniflorum</i> Ludl.	Lour Lu	(root) Lactones, flavonoids, essential oils. ⁴⁸	Febrifuge, an emmenagogue, antidiysenteric.
<i>Rheum officinale</i> Baill. <i>R. koreanum</i> Nakai <i>R. palmatum</i> L. <i>R. tanguticum</i> Maxim <i>R. undulatum</i> L.	Tai Huang (Rhubarb)	(rhizome) Anthraquinones, chrysophanol, emodin, physcion, aloe-emodin, rhein, chrysophenol, rheum tannic acid, gallic acid, catechin, bianthraquinonyl, sennosides (<i>R. undulatum</i> also contains rhaponticin). ^{1,33,236,510} This herb may be toxic.	Potent laxative, antibacterial, anthelmintic, anticancer, stimulate the large intestine and increase the movement of luminal contents toward the anus, resulting in defecation. Antispasmodic, choleretic, hemostatic, diuretic, lower blood pressure, lower cholesterol level.
<i>Rhodea japonica</i> Roth.	Won Nian Qing	(leaf, rhizome) Rhodexin A, B, C, and D. ³³ This herb can cause vasoconstriction.	Improve heart muscle, used as an emetic, antibacterial.
<i>Rhodiola elongata</i> (Ledeb.) Fisch. & Meyer	Hong Gin Tian	(root) p-tyrosol, rhodioloside, flavonoids. ⁴⁸	A tonic, improve heart muscle, aphrodisiac.

<i>Rhododendron anthopogon</i> G. Don	Lie Xiang Du Juan (Rhododendron)	(leaf) Essential oils, saponins, quercetin, gossypetin. ³³	Antitussive, antiasthmatic.
<i>Rhododendron dauricum</i> DC	Man Shan Hong (Daurian rhododendron)	(leaf) Germacrone, flavonoid, farreol, feriol, quercetin, myricetin, anromedotoxin, rhodotoxin. ³³	Antitussive, antiasthmatic.
<i>Rhododendron molle</i> (Blume) G. Don	Ba Li Ma (Chinese azalea, yellow azalea)	(fruit) Rhomotoxin. ^{37,144} This herb is toxic.	Treats tachycardia, palpitations, hypertension.
<i>Rhododendron mucronatum</i> G. Don	Bai Du Juan Hua (white azalea)	(flower) Essential oil, germacrone, farreol, grayanotoxin, gossypetin, azaleatin, 5-methyl kaempferol, 5-methyl myricetin, syringic acid, dihydroquercetin, coumarins, phenolic acid, p-hydroxybenzoic acid, protocatchuic acid, vanillic acid. ⁴⁸	Treat cough, asthma, headache, respiratory infection.
<i>Rhododendron sinensis</i> Sw.	Yang Zhi Zu (Chinese rhododendron)	(flower) Andromedotoxin, veratrine alkaloids. ⁴⁹ This herb is toxic.	Sedative, analgesic, anesthetic in rheumatism.
<i>Rhus chinensis</i> Mill. <i>R. cotinus</i> L. <i>R. javanica</i> L. <i>R. osbeckii</i> Decne.	Wu Bei Zi (Chinese sumach)	(leaf) Gallotannic acid, gallic acid, resin, polysaccharides. ^{33,144} This herb is toxic.	Treat chronic intestinal infections, hematochezia, protopsis, skin infections, bleeding wounds.
<i>Rhus semialata</i> Murr.	Po Yen (Sumac)	(nutgalls on leaves) Tannins. ⁴⁹	As an astringent, styptic, treat diarrhea, hemorrhage.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Rhus verniciflua</i> Stokes	Gan Qi (Lacquer tree)	(exudation of the bark) Resinous oil urushiol. ⁴⁹ This herb may be toxic.	As hemolytic, emmenagogue, vermifuge.
<i>Ribes mandshurica</i> (Maxim.) Kom. <i>R. mandshurica</i> (Maxim.) Kom. f. subglabrum (Kom.) Kitag.	Shan Ma Zi	(fruit) Citric acid, malic acid, organic acids. ⁴⁸	Treat cold.
<i>Ricinus communis</i> L.	Bi Ma Zi (Castor bean)	(seed) Ricinine, ricinolein, olein acid, stearin acid, isoricinoleic acid, cytochrome C, castor oil. ^{33,427,450}	Cathartic, tumor inhibition.
<i>Rorippa indica</i> (L.) Hiern. <i>R. islandica</i> (Oeder) Borbas <i>R. montana</i> (Wall) Small	Han Cai (Nasturtium)	(whole plant) Alpha-phenylethylisothiocyante, gluconasturtin, rorifone, rorifamide. ^{33,235}	Antitussive, expectorant, diuretic, detoxicant.
<i>Rosa acicularis</i> Lindl. <i>R. amygdalifolia</i> Ser. <i>R. davurica</i> Pall. <i>R. davurica</i> Pall. var. <i>alpestris</i> (Nakai) Kitag. <i>R. koreana</i> Kom. <i>R. laevigata</i> Michx. <i>R. maximowicziana</i> Regel	Jin Jing Zi (Climbing rose)	(flower, fruit, root) Vitamins, tetracyclic triterpene acids, flavonoids, ethyl beta- fructopyranoside, methyl-3-O- beta-glucopyranosyl-gallate, gallocatechin, epigallocatechin, epicatechin gallate, catechin, epicatechin, fatty acids. ^{48,251}	Stop vomiting blood, stomachache, relieve pain caused by nervous system, menstruation.
<i>Rosa chinensis</i> Jacq. <i>R. indica</i> Lindl.	Yue Je Hua (Tea rose)	(leaf, fruit, flower bud) Essential oils. ⁴⁹	For arthritis, boils, cough, hematuria, rheumatoid joint pains, circulatory stimulant.

<i>Rosa multiflora</i> Thunb.	Chen Wei (Multiflora rose, seven sisters rose)	(leaf, fruit, seed) Ascorbic acid, multiflorin, quercetol, kaempferol-3-glucoside, catechin. ⁵⁰	Anodyne, diuretic, laxative.
<i>Rosa rugosa</i> Thunb.	Mei Gui Hua (Rose)	(flower bud) Essential oils, l-citronellol, citral, geraniol, nerol, eugenol, cyanin, n-phenylethyl alcohol, citrol, nonyl aldehyde, l-linalool, l-p-menthene, nonacosane, menthene, paeonidin, bensaldehyde, phenylacetic acid, rosenoxide. ^{48,50}	Promote blood circulation, treat abscesses, blood diseases, dyspepsia, hematemesis, hepatitis, stomachache.
<i>Rubia akane</i> Nakai	Hong Gen Cao	(root) Alizarin, rubrierythrinic acid, purpurin. ⁸⁵	Treat rheumatism.
<i>Rubia chinensis</i> Regel & Maack <i>R. cordifolia</i> Thunb. <i>R. cordifolia</i> L. f. pratensis (Maxim.) Kitag. <i>R. mungista</i> Roxb. <i>R. sylvatica</i> (Maxim.) Nakai	Qian Cao (Madder)	(root) Rubrierythrinic acid, alizarin, purpurin, pseudopurpurin, munjistin. ^{33,49}	Hemostatic, shorten the blood clotting time, antibacterial, antitussive, stimulate uterine contractions.
<i>Rubus coreanus</i> Miq. <i>R. crataegifolius</i> Bunge. <i>R. matsumuranus</i> Levelle & Vaniot <i>R. matsumuranus</i> Levelle & Vaniot var. <i>concolor</i> (Kom.) Kitag. <i>R. saxatilis</i> L.	Fu Pen Zi (Briar rose)	(fruit, root) Beta-sitosterol, stigmasterol, campesterol, cholestanol, ursolic acid, flavonoids. ⁴⁸	Diuretic, aphrodisiac, level infection, joint infection caused by arthritis.
<i>Rubus parvifolius</i> L.	Hong Mei Xiao	(root, stem) Flavonoids. ⁴⁸	Treat fever, throat pain, blood vomiting, liver and intestinal infections.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Rumex acetosa</i> L. <i>R. acetosella</i> L. <i>R. amurensis</i> Fr. Schm. <i>R. aquaticus</i> L. <i>R. gmelini</i> Turcz. <i>R. longifolius</i> DC <i>R. maritimus</i> L. <i>R. marschallianus</i> Rehb. <i>R. stenophyllus</i> Ledeb. var. ussuriensis (A. Los.) Kitag. <i>R. thyrsiflorus</i> Fingerh.	Suan Mo (Garden sorrel)	(whole plant) Vitexin, quercetin-3-galactoside, violaxanthin, vitamin C, emodin, chrysophanein, chrysophanol, nepodin, hyperin, physcion. ^{48,50}	Homeopathically for cramps, hemorrhage, sore throat, esophagitis, diuretic, treat blood vomiting.
<i>Rumex crispus</i> L. <i>R. japonicus</i>	Yang Ti Gen (Dock)	(root) Chrysophanein, nepodin. ⁴⁸	Treat ovarian bleeding, eczema, tuberculosis, sexually transmitted diseases.
<i>Rumex patientia</i> L. var. <i>callosus</i> Fr. Schm.	Tu Tai Huang	(root) Chrysophanol, emodin, physcion, sloeemodin, anthranol, emodin- monomethylether. ³³	Hemostatic, treat thrombopenia and uterus.
<i>Sagittardia sagittifolia</i> L.	Ci Gu (Arrow head)	(whole plant) d-raffinose, d-stachyose, d-verbascose, d-fructose, d-galactose, glucose, asparagine, vitamin B. ⁴⁸	Bruised leaves for bugbite, foul sores, scrofulous ulcers, antilactagogue.
<i>Salix babylonica</i> L. <i>S. matsudana</i> Koidz. <i>S. microstachya</i> Turcz. ex Trautv.	Liu Ye (Weeping willow)	(leaf, root) Saligenin glucoside, iodine, pyrocedol, saponins. ³³	Antigoiter, antibacterial, treat tubercule bacilli.
<i>Salsola collina</i> Pall.	Zhu Mao Chao	(whole plant) Salsoline, salsolidine, betaine. ³³	Treat hypertension at early stage.

<i>Salvia chinensis</i> Benth. <i>S. pogonocalyx</i> Hance <i>S. przewalskii</i> Maxim. <i>S. miltiorrhiza</i> Bunge.	Shi Jian Chuan	(rhizome) Scutellarin, danshenols. ^{60,440,507}	Treat abdominal pain, arthritis, inflammation, metrorrhagia, uteritis, women's diseases, treat nasopharyngeal carcinoma.
<i>Salvia coccinea</i> L.	Zhu Chun Hua	(whole plant) Saluianin. ⁵⁶	Stop bleeding, cooling effect, stimulate sweating, relieve swelling.
<i>Salvia miltiorrhiza</i> Bunge.	Tan Seng (Red-rooted sage)	(root) Tanshinone, cryptotanshinone, isocryptotanshinone, miltirone, tanshinol, salviol, acetylsalicylic acid. ^{33,226,235,428,429}	Treat angina pectoris, cerebral atherosclerosis, diffusive intravascular clotting, thrombophlebitis, antioxidant.
<i>Salvia plebeia</i> R. Brown	Li Zhi Cao	(aerial part) Flavonoids, homoplantagin, hispidulin, eupafolin, essential oils. ⁴⁸	Diuretic, vermifuge, astringent.
<i>Sambucus coreana</i> Kom. & Klob. Alisova <i>S. latipinna</i> Nakai <i>S. manshurica</i> Kitag. <i>S. peninsularis</i> Kitag. <i>S. sieboldiana</i> (Miq.) Blume ex Graebner var. miquelii (Nakai) Hara <i>S. williamsii</i> Hance	Jie Gu Mu (Elder)	(leaf, flower, stem, root bark) Chlorogen acid. ⁶⁰	Diaphoretic, diuretic, carminative, treat arthralgia, fever.
<i>Sambucus formosana</i> Nakai	Hu Gu Xiao	(Leaf) Alpha-amyrin palmitate. ⁵⁶	Detoxicant, stop swelling, diuretic, relieve pain.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Sanguisorba officinalis</i> L. <i>S. grandiflora</i> (Maxim.) Makino <i>S. officinalis</i> L. <i>S. officinalis</i> L. f. <i>latifoliata</i> (Liou et C. Y. Li) Y. C. Chu <i>S. officinalis</i> L. var. <i>longa</i> Kitag. <i>S. officinalis</i> L. var. <i>longa</i> Kitag. f. <i>dilutiflora</i> Kitag. <i>S. parviflora</i> (Maxim.) Takeda <i>S. x tenuifolia</i> Fisch. ex Link	Zi Yu (Burnet)	(root) Oxalic acids, hydroxycinnamic acids, hydroxybenzoic acids, coumarins, anthocyanidines, anthraquinones, phytosterines, carotenes, ether oils, monoterpene, sesquiterpene glucosides, Zi Yu glucoside I, hydrocyanic acids, Zi Yu glucoside II, sanguisorbin A, sanguisorbin B, sanguisorbin C. ^{33,222}	Astringent effect to stop diarrhea and relieve chronic intestinal infection, duodenal ulcer and bleeding. Externally for eczema.
<i>Sansevieria trifasciata</i> Prain	Hu Wei Lan (Snake plant)	(leaf) Abamagenin, haemolytic sapogenin, organic acids. ⁵⁰	Leaf juice for earache. Treat itchiness.
<i>Santalum album</i> L. <i>S. myrtifolium</i> Roxb. <i>S. verum</i> L.	Tan Xian (Sandalwood)	(heartwood) Alpha-santalol, beta-santalol, alpha-santalene, beta-santalene, santene, alpha-santenone, alpha-santenol, santalone, santalic acid, teresantalic, isovaleraldehyde, teresantalol, tricycloekasantal, santalin, deoxysantal, sinapyl aldehyde, caniferyl aldehyde, syringic aldehyde. ³³	Treat stomachache.
<i>Sapindus mukorossi</i> Gaertner	Wu Huan Shu (Bodhi seeds)	(flower, fruit, seed, root) Saponin, mukorosside. ^{60,450}	For conjunctivitis, eye diseases, removes freckles and suntan.

<i>Sapium sebiferum</i> (L.) Roxb. <i>S. discolor</i> Mueller-Arg.	Wu Jiu Shan Jiu (Chinese tallow tree, Chinese vegetable tallow)	(Leaf, root bark) Xanthoxylin, corilagin, sebiferic acid, lauric acid, margaric acid, palmitic acid. ^{33,50}	Antihypertensive activity, for constipation, poisoning, skin diseases.
<i>Saponaria officinalis</i> L. <i>S. vaccaria</i> L. (Syn. <i>Vaccaria segetalis</i>)	Wang Bu Liu Xing (Cow herb)	(seed, root) Saponarin. ⁶⁵ This herb is contraindicated in pregnancy.	For abscesses, furuncles, ulcers, scabies, mastitis, lymphangitis. Root is used to treat syphilis, glandular and chronic skin disease.
<i>Sarcandra glabra</i> (Thunb.) Nakai	Shong Jie Fong	(whole plant) Glucosides, essential oils, fumaric acid, succinic acid. ^{33,508,509}	Treat malignant tumors.
<i>Sargassum pallidum</i> (Harv.) Setch.	Hai Zao (Seaweed)	(seaweed) Iodine, alginic acid, algin, iron, potassium. ³³	Antigoiter, anticoagulant.
<i>Sargentodoxa cuneata</i> L.	Hong Teng	(leaf, stem) Acetylsalicylic acid. ^{50,226}	Antibacterial, antipyretic, activates blood flow.
<i>Saururus chinensis</i> (Lour.) Baillon	San Bai Cao (Lizard's tail)	(whole plant) Quercitrin, isoquercitrin, avicularin, hyperin, amino acids. ⁵⁵	To clean abscesses, antimalarial, diuretic, depurative, eliminative, parasiticide.
<i>Saussurea japonica</i> (Thunb.) DC <i>S. japonica</i> (Thunb.) DC f. <i>alata</i> (Chen) Kitag. <i>S. japonica</i> (Thunb.) DC var. <i>maritima</i> Kitag. <i>S. lappa</i> Clarke	Mu Ziang (Custus)	(root) Saussurine, phene, phellandrene. ⁴⁹	As a stomachic.
<i>Schisandra arisanensis</i> Hayata <i>S. sphenanthera</i> Rehd.	Taiwan Wu Wei Zi	(stem) ⁵⁶ Schisantherin A, B, C, D, E. ²³⁵	For blood vomiting, pain caused by cold, overtiredness, wounds.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Schisandra chinensis</i> (Turcz.) Baill.	Wu Wei Zi (Chinese magnolia vine)	(fruit, kernel) Schizandrin, deoxyschizandrin, schizandrol, schizandrer. ^{8,33}	Antitussive, a tonic. A tendency to lower SGPT caused by hepatitis.
<i>Schizonepeta multifida</i> (L.) Briquet <i>S. tenuifolia</i> (Benth.) Briquet	Jing Jie	(aerial part, spikes) Essential oils, d-menthone, d-limonene, campesterol, stigmasterol, beta-sitosterol, hesperidin. ^{33,214}	Diaphoresis, anti-inflammatory, analgesic, antipyretic, antispasmodic, anti-diabetic, lower body temperature, increase blood coagulation, anticonvulsive.
<i>Scopalia dulcis</i> L.	Tian Zhu Cao	(whole plant) Amellin, dulciol, hexacosanol, mannitol, beta-sitosterol, mannitol, tannins, hexacosanol, salicylic acid, scopanol, dulcilone, tetulinic acid, ifflaionic acid. ^{50,86}	A cough remedy, induce labor, used as an opium substitute. Therapeutic action in diabetes in some reports.
<i>Scopolia tangutica</i> Max.	San Long Zhi	(root) Hyoscyamine, scopolamine, anisodamine, anisodine. ^{33,42}	Treat shock caused by acute infectious diseases, cerebral thrombosis, acute spinal cord inflammation.
<i>Scrophularia buergeriana</i> Miq. <i>S. kakudensis</i> Franch var. <i>latisepala</i> (Kitag.) Kitag. <i>S. ningpoensis</i> Hemsl. <i>S. oldhami</i> Oliv. <i>S. puergeriana</i> Miq.	Xuan Seng (Figwort)	(root) Scrophularin, iridoid glycosides, 8-(O-methyl-p-coumaroyl)-harpagide, harpagoside, essential oils, flavonoids, p-methoxycinnamic acid. ³³	Lower blood pressure and blood sugar. A health strengthening agent.

<i>Scutellaria baicalensis</i> Georgi <i>S. grandiflora</i> Adams <i>S. lanceolaria</i> Miq. <i>S. macrantha</i> Fisch. <i>S. rivulararis</i> Benth. <i>S. viscidula</i> Bunge.	Huang Qin (Skullcap)	(root) Baicalein, baicalin, wogonin, beta-sitosterol, wognoside, 7-methoxy-baicalein, 7-methoxynorwogonin, skullcap flavones. ^{33,257,430,432}	Antibacterial, antiviral, an antioxidant, antipyretic, anti-inflammatory, antitumor, anti-neoplastic.
<i>Scutellaria formosana</i> Brown	Taiwan Huang Qin	(whole plant) Berberine, baicalin. ^{54,233,234}	Relieve swelling, pain, treat cold, wounds, liver infection.
<i>Securinega suffruticosa</i> (Pall.) Rehd.	Yi Ye Chan	(leaf, flower, twig) Securinine, allosecurinine, securinol, dihydrosecurinine, securitinine, phyllantidine. ³³ This herb may be toxic.	Treat infantile paralysis, neurasthenia, neuromyopathy.
<i>Securinega virosa</i> (Roxb.) Pax & Hoffmann	Bai Yin Shu	(leaf, root) Virosine, norsecurinine, dihydrosecurinine, virosecurinin, viroallosecurinine, norsecurinine, fluggein. ⁵⁶	Leaves used as a maturative, a detergent, it has antibiotic activity. Root to treat teeth and gum disease.
<i>Sedum aizoon</i> L.	Jing Tian San Qi	(whole plant) Sedoflorin, sedocaulin, sedocitrin, sedoheptulose, arbutin. ^{33,48}	Hemostatic, removes blood stasis.
<i>Sedum erythrostichum</i> Miq. <i>S. kamtschaticum</i> Fisch. <i>S. verticillatum</i> L.	Jing Tian (Stonecrop)	(whole plant) Sedoheptulose, sarmentosin. ^{48,235}	Detoxicant, relieve swelling, stop bleeding and pain.
<i>Sedum formosanum</i> N. E. Brown	Taiwan Fo Jia Cao	(whole plant) Triterpenes, amyrenone, amyrenol. ⁵⁴	Treat diabetes, relieve swelling, pain, diarrhea, aid digestion.
<i>Sedum lineare</i> Thunb.	Fo Jia Cao (Linear stonecrop)	(whole plant) Sedoheptose, glucose, fructose. This herb is slightly toxic. ⁵⁰	Applied locally to burns and scalds, treat throat infection, diabetes.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Sedum sarmentosum</i> Bunge.	Chui Pen Chao or Jing Tian (Stringy stonecrop)	(whole plant) Sarmentoslin, dihydro-N-methyl-isopelletierine, N-methyl-2-(β -OH-propyl) piperidine, N-methyl-isopelletierine, dl-methylisopelletierine, dihydroisopelletierine. ^{33,48,50}	Antipyretic, detoxicant, diuretic, treat hepatitis.
<i>Selaginella involvens</i> (Sw.) Sprengel <i>S. doederleinii</i> Heironyus	Shi Juan Bai Shi Shang Bai	(whole plant) Alkaloids, trehalose, d-glucose. ⁵⁵	A febrifuge, antihemorrhagic, detoxicant in molar cancer, for cough, gravel, rectum, blood thinning property, amenorrhea.
<i>Selaginella tamarisina</i> (Beauv.) Spring	Juan Bai	(whole plant) Sotelsuflavone, amentoflavone, apigenin, trehalose, hinokiflavone, isocryptomerin, sotetsuflavone. ^{33,48}	Treat hematurai, dysmenorrhea, stops postpartum bleeding.
<i>Semiaquilegia adoxoides</i> (DC) Mak.	Tian Kui Zi	(root) ^{50,60} No information is available in the literature.	For scabby skin, urinary disorders, an insecticide.
<i>Senecio argunensis</i> Turcz. <i>S. nemorensis</i> L. <i>S. scandens</i> Buch-Ham ex D. Don	Qian Li Guang (Ragwort)	(aerial part) Lavoxanthin, macrophylline, cynarin, chlorogenic acid, chrysanthemaxanthin, sarracine. ^{33,48}	Antibacterial, antiplasmodial, treat acute bacterial dysentery and bronchitis.

<i>Senecio campestris</i> (Retz.) DC	Gou Shi Cao (Dog's tongue)	(whole plant) Alkaloids. ⁴⁸ This herb may be toxic.	Depress leukemia, detoxicant, diuretic, insectisidic.
<i>Senecio cannabifolius</i> Lessing	Huan Hun Cao (Groundsel)	(whole plant) p-hydroxyacetophenone, arbutin. ⁴⁸	Treat heart disease, respiratory infection, sexually transmitted diseases.
<i>Senecio vulgaris</i> L.	European Qian Li Guang (German ivy)	(aerial part) Senecionine, inulin. ⁵⁸	Used in ointment on hemorrhoids and swellings, lower blood pressure, laxative.
<i>Sesamum indicum</i> L.	Wu Ma (Sesame)	(seed) Olein acid, linolein acid, palmitine acid, stearin acid, myristic acid, sesamin, sesamol, pentosan, phytin, lecithin, choline, calcium oxalate, chlorogenic acid, vitamin A, vitamin B. ⁴⁹	A nutrient, laxative, hyperchlorhydria, a lenitive in scybalous constipation, as nutrient tonic in degenerative neuritis, neuroparalysis.
<i>Sesbinia grandiflora</i> (L.) Persoon	Da Hua Tian Qing	(bark, root) Agathin, xanthoagathin. ⁵⁷	A tonic, antipyretic, for gastric troubles, colic with diarrhea, and dysentery.
<i>Sesbinia javanica</i> (L.) Persoon	Tian Qing	(whole plant) Pentosan, d-galactose, d-mannose.	Diuretic, detoxicant, stop pain.
<i>Sesbinia sesbin</i> (L.) Merrill.	Indian Tian Qing	(root, leaf, bark, seed) ⁵⁷ Saponins, triterpene glycosides, steroid glycosides, glycoalkaloids, kaempferol trisaccharide. ^{342,343,344}	Diuretic, irregular menses, externally for bug bites, anti- tumor.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Silene jenseensis</i> Willd. <i>S. jenseensis</i> Willd. f. <i>dasyphylla</i> (Turcz.) Schischk. <i>S. jenseensis</i> Willd. f. <i>parviflora</i> (Turcz.) Schischk. <i>S. jenseensis</i> Willd. f. <i>setifolia</i> (Turcz.) Schischk. <i>S. jenseensis</i> Willd. var. <i>oliganthella</i> (Nakai ex Kitag.) Y. C. Chu <i>S. jenseensis</i> Willd. var. <i>viscifera</i> Y. C. Chu	Han Mai Bin Cao	(root) 6,8-di-C-galactopyranosylapigenin, 6-C-galactopyranosyl-isoscutellarein, essential oil. ⁸⁴	For fever, kala-azar, malaria.
<i>Silybum marianum</i> (L.) Gaertn.	Shui Fei Ji	(fruit) Silybin, silymarin, silydamin, silyckristin, dehydrosilybin, silybinomer. ³³	Maintain normal functioning of the liver, promote the regeneration of injured hepatic cells, increase glycogenesis and nucleic acid metabolism.
<i>Sinapis alba</i> L.	Bai Jie (Mustard)	(leaf) Arachidic acid, erucic acid, lignoceric acid, linoleic acid, myrosinase, phosphatase, sinalbine. ⁵⁰	Carminative, toothache, seal eruptions and ulcers.
<i>Sinomenium acutum</i> (Thunb.) Rehd. et Wils. <i>S. diversifolium</i> Diels.	Japanese Fuag Ji, Qing Teng	See <i>Cocculus diversifolius</i>	

<i>Sinomenium acutum</i> var. <i>cinereum</i>	Qing Feng Teng	(stem) Sinomenine, disinomenine, magnoflorine, acutumine, sinactine, isosinomenine, tuduranine, sinoacutine. ³³	Analgesic, anti-inflammatory, lower blood pressure.
<i>Smilacina japonica</i> A. Gray	Lu Yao	(root) ⁴⁸ No information is available in the literature.	For arthritis, relieve swelling and pain, aphrodisiac, regulate monthly period, breast gland infection.
<i>Smilax china</i> L. <i>S. nipponica</i> Miq. subsp. <i>manshurica</i> Kitag. <i>S. riparia</i> DC subsp. <i>ussuriensi</i> (Regel) Kitag. <i>S. sieboldii</i> Miq.	Tu Gu Ling (China root)	(root) Crystalline saponin smilacin, tannins, resin, tigogenin, neotigogenin, laxogenin. ^{48,49}	As alternative, diuretic in syphilis, gout, skin disorders, rheumatism.
<i>Solanum aculeatissimum</i> Jacquin	Xiao Ying Qie	(fruit) Solasonine, beta-solamargine, solasurine. ⁵⁵	For cough, asthma, diuretic, pain.
<i>Solanum biflorum</i> Loureiro	Hong Si Xian	(whole plant) Glycoside alkaloids, steroid alkaloid glycosides. ^{55,360,361}	Detoxicant, for cough, swelling, dog bites.
<i>Solanum capsicastrum</i> Link.	Mao Dong San Hu	(leaf) Solanocapsine. ⁵⁵	With cooling effect, relieve swelling, treat liver inflammation.
<i>Solanum incanum</i> L.	Huang Shui Jia	(root) Beta-sitosterol, D-glucose, ursolic acid, alkaloids, solasodine, solamargine. ⁵⁵	Treat liver inflammation, lymphatic gland, a detoxicant.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Solanum indicum</i> L.	Niu Zi Qie (Indian nightshade)	(root, leaf, fruit) Diosgenin, solanidine, solanine, solasodine, alkaloids, carbohydrases, maltase, saccharase, melibiase. ⁵⁰	Antidote for poison, for urinary disease.
<i>Solanum lyratum</i> Thunb. <i>S. melongena</i> L.	Bai Ying (Eggplant)	(root, leaf, flower, fruit) Trigonelline, stachydrine, choline, solanine, nasunin, shisonin, delphinidin-3-monoglucoside, adenine, imidazolyloethylamine, solasodine, arginine glucoside. ⁴⁸	For arthritis, respiratory disorder, swelling, cough, diarrhea, blood in the urine.
<i>Solanum nigrum</i> L.	Long Kui (Black nightshade)	(whole plant) Solanigrines, saponin, riboflavin, nicotinic acid, vitamin C. ³³	Antibacterial, diuretic, treat mastitis, cervicitis, chronic bronchitis, dysentery.
<i>Solanum pseudo-capsicum</i> L.	Dong San Hu	(root) Solanocapsine. ⁵⁵	A detoxicant, relieve pain. Treat tuberculosis, pneumonia.
<i>Solanum verbascifolium</i> L.	Shan Yan Cao (Tobacco nightshade, turkey berry)	(root) Solasonine. ⁵⁴	Treat dysentery, intestinal pain, and fever.
<i>Solidago canadensis</i> L.	N. Am. Yi Zhi Huang Hua	(whole plant) Cadinene, quercitrin. ⁵⁷	Antibacterial, treat infection, stop bleeding, throat swelling.

<i>Solidago dahurica</i> (Kitag.) Kitag. <i>S. pacifica</i> Juzepczuk. <i>S. virgaurea</i> L.	Yi Zhi Huang Hua (Golden rod)	(whole plant) Caffeic acid, chlorogenic acid, cyanidin-3-glucoside, flavonoids, astragalín, cyanidin-3-gentiobioside, kaempferol-rhamno glucoside, hydroxycinnamic acid, quinic acid, polygalacic acid. ^{48,50}	Decoagulant, carminative, for bladder ailments, cholera, diarrhea, dysmenorrhea.
<i>Sonchus arvensis</i> L. <i>S. oleraceus</i> L.	Ju Shi Cai (Sow thistle)	(whole plant) Inositol, lactucol, mannitol, taraxasterol, palmitic acid, stearic acid, tartaric acid, lactucol. ⁵⁰	Used as an insecticide, asthma, bronchitis, cough, ophthalmia, insomnia, pertussis, swellings and tumors.
<i>Sophora flavescens</i> Ait. <i>S. alopecuroides</i> L.	Ku Seng Gu Dong Zi	(root) d-oxymatrine, d-sophoranol, cytosine, l-anagrine, l-baptifoline, l-methylcytosine, trifolirhizin, d-matrine, norkurarinone, kuraridin. ³⁶	Anthelmintic, antipruritic, treats irregular heart beat, eczema, acute dysentery, trichomoniasis.
<i>Sophora japonica</i> L.	Huai Hua (Japanese pagoda tree)	(flower bud) Rutin, sophoradiol, genisteine, sophoricoside, sophorabioside, sophoraflavonolose, isorhammetin. ^{33,252}	Antihemostatic, increase capillary resistance and decreasing capillary fragility and permeability.
<i>Sophora subprostrata</i> Chun et T. Chen	Shan Dou Gen	(root) Matrine, oxymatrine, anagrine, methylcytosine, sophoranone, sophoranol, sophoradin, daidzein. ³³ This herb is toxic.	Against tubercle bacilli, treat intractable ulcerative colitis, antiarrhythmic, anticancer, promotes leukocytosis.
<i>Sophora tomatosa</i> L.	Ling Nan Huai	(seed, leaf, root) Cytosine (sophorine). ⁸⁸	For diarrhea, cholera, colic, dysentery.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Sorbus alnifolia</i> (Sieb. & Zucc.) K. Koch <i>S. alnifolia</i> (Sieb. & Zucc.) K. Koch var. <i>lobulata</i> Rehd. <i>S. amurensis</i> Koehne <i>S. pohuashanensis</i> (Hance) Hedl. var. <i>manshuriensis</i> (Kitag.) Y. C. Chu.	Shui Yu	(stem, bark, fruit) Fatty acids, starch, essential oils, flavonoids, isochlorogenic acid, parasorbic acid. ⁴⁸	For stomach infection and ache, swellings, cough, vitamin deficiencies.
<i>Spatholobus suberectus</i> Dunn.	Ji Xue Teng	(stem) Friedelin, taraxerone. ³³	Slow the heart rate, lower blood pressure.
<i>Sphenomeris chusana</i> (L.) Copel.	Wu Ju	(whole plant) Sphenone A, phenanthrene-1, 4-quinone. ^{60,229}	Treat feverish conditions and bladder difficulties.
<i>Spilanthes acmella</i> (L.) Murray <i>S. acmella</i> L. var. <i>oleracea</i> Clarke	Tian We Cao Liu Shen Cao	(whole plant) Alpha-amyrenol, beta-amyrenol, myricyl, stigmasterol, sitosteryl-o- β -d-glucoside, spilanthol. ⁵⁸	Treat aphrodisiac, depurative, diuretic, ophthalmic, tonic.
<i>Spiraea salicifolia</i> L. <i>S. salicifolia</i> L. var. <i>grosseserrata</i> Liou & Liou fil. <i>S. salicifolia</i> L. var. <i>oligodonta</i> Yu	Xiu Xian Jiu (Bridal wreath)	(whole plant) Flavonoids, carotenoids, vitamin C, alkaloids, seed oil. ³³	Diuretic, treat cough, pain, monthly period, constipation.
<i>Spirodela polyrhiza</i> Schleid.	Fu Ping (Duckweed fern)	(whole plant) Apigenin-7-O-glucoside, apigenin-8-C-glucoside. ^{48,50}	Carminative, diaphoretic, diuretic.

<i>Stachys chinensis</i> Bunge. ex Benth. <i>S. baicalensis</i> Fisch. ex Benth. <i>S. baicalensis</i> Fisch. ex Benth. var. angustifolia Honda <i>S. japonica</i> Miq.	Shui Su (Camphor mint)	(whole plant) Coumarin, alkaloids, stachydrine chloride. ⁴⁸	Treat cold, influenza.
<i>Stauntonia hexaphylla</i> Dence <i>S. chinensis</i> Bunge.	Ye Mu Gua	(fruit, stem, root) Stauntonin. ^{50,440}	Antirheumatic, diuretic, treat nasopharyngeal carcinoma.
<i>Stellaria alsine</i> Grimm var. undulata (Thunb.) Ohwi	Tian Peng Cao (Starwort)	(whole plant) ⁵⁰ No information is available in the literature.	For colds, pimples, snakebite, traumatic injuries. It is a carminative, lactagogue.
<i>Stellaria media</i> (L.) Cyrillo	Fan Lu (Chickweed)	(whole plant) r-linolenic acid, octadecatetraenoic acid. ⁴⁸	A postpartum depurative, emmenagogue, lactagogue, promote circulation, treat mucus disorder. Externally for rheumatic pains, ulcers, wounds.
<i>Stemona japonica</i> (Bl.) Miq. <i>S. tuberosa</i> Lour.	Bai Bu Dei Ye Bei Bu	(root) Stemonine, isotemonidine, stemonidine, protostemonine. ^{33,50}	Suppress excitation of the respiratory center and inhibit the cough reflex. Antitubercular, antibacterial, antifungal.
<i>Stephania cepharantha</i> Diels.	Jin Xian Diao Wu Gui	(root) Cepharanthine, isotetrandrine, cycleanine, cepharanoline, berbamine, cepharamine, homoaromoline. ^{33,43}	A diuretic, antiphlogistic, antirheumatic, analgesic, anti- inflammatory.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Stephania hernandifolia</i> (Willd.) Walp.	Qian Jin Teng	(root) dl-tetrandrine, fangchinoline, 4-dementhyl-hasubanonine, isochondrodendrine, hernandine, stephisoferuline, hernandoline, hernandolinol, 3-O-demethylhernandifoline. ³³	Treat nephritic edema, urinary tract infection, rheumatic arthritis, sciatic neuralgia.
<i>Stephania japonica</i> (Thunb.) Miers.	Qian Jin Teng	(root) Stephanine, protostephanine, epistephanine, hypoeptephanine, homostephanoline, metaphanine, prometaphanine, hasubanonine, insularine, cyclanoline, steponine stephanoline, stepinonine. ³³	Treat nephritic edema, urinary tract infection, rheumatic arthritis, sciatic neuralgia.
<i>Stephania sinica</i> DC	Hua Qian Jin Teng	(root) l-tetrahydropalmatine, stepharotine, stepharine, tuduranine. ³³	Analgesic effect, treat stomachache, neuralgia, toothache.
<i>Stephania tetrandra</i> q Moore	Fang Ji or Han Fang Ji	(root) d-tetrandrine, fangchinotone, cyclanoline. ^{33,38} This herb may cause kidney failure. ³⁹²	A diuretic, antiphlogistic, antirheumatic, analgesic, anti-inflammatory.
<i>Stevia rebaudiana</i> (Bertoni) Hemsl.	Tian Jiu (Stevia)	(stem, leaf) Stevioside, steviolbioside, rebaudiosides, austroinulin. ⁵⁷	Treat diabetes, tonic, lower blood pressure.

<i>Strophanthus divaricatus</i> (Lour.) Hook. et Arn.	Yang Guo Nau	(seed) Divaricoside, divostroside, sinoside, sinostroside, caudoside, caudostroside, sarmutoside. ³³ This herb is toxic.	Cardiac stimulating action causing an increase of myocardial contractility, slow the heart beat.
<i>Strychnos nux-vomica</i> L.	Fan Mu Pen (Strychnine)	(seed) Strychnine, monomeric tertiary indole alkaloids, brucine. ^{50,144,504} This herb is highly toxic.	Treat neurasthenia, aphrodisiac, vasomotor stimulation, regulate blood pressure, treat nerve diseases.
<i>Strychnos pierriana</i> L.	Ma Qian Zi	(seed) Strychnine, brucine, vomicine, pseudostrychnine, pseudobrucine, novacine. ³³	Increase central nervous system reflex stimulation.
<i>Styrax suberifolus</i> Hook. et Arnott.	Hong Pi	(root, leaf) ⁵⁵ No information is available in the literature.	Stomachache, pain caused by arthritis.
<i>Styrax tonkinensis</i> Pierre. <i>S. benzoin</i> Dryand	An Xi Xian (Styrax)	(leaf) Sumaresinolic acid, coniferyl cinnamate, styracin, vanillin, alpha- phenylpropyl cinnamyl cinnamate, balsamic acid. ^{33,50}	As an aromatic stimulant, for aphrodisiac, an astringent.
<i>Swertia diluta</i> (Turcz.) Benth. et Hook. f. <i>S. mileensis</i> L.	Qing Ye Dan	(whole plant) Oleanolic acid. ³³	Treat acute icteric hepatitis.
<i>Swertia pseudochinensis</i> Hara	Dang Yao	(whole plant) Swertiamarin, swertisin, methyl- bellidifolin, homoorentin, methyl- swertianin, isovitexin, bellidifolin, decussatin, swertifranchideside. ³³	Choleretic, improve hepatic function. Treat acute icteric hepatitis, chronic liver disease.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Syringa dilatata</i> Nakai <i>S. oblata</i> Lindley <i>S. oblata</i> Lindley var. <i>alba</i> Hort. ex Rehd. <i>S. reticulata</i> (Blume) Hara var. <i>mandshurica</i> (Maxim.) Hara <i>S. suspensa</i> Thunb. (Syn. <i>Forsythia suspensa</i>) <i>S. vulgaris</i> L.	Lian Qiao	(bark, fruit) Syringin, 3,4-dihydroxyphenethyl alcohol, saponons, phillyrin. ⁴⁹	Antipyretic, antiphlogistic in infectious fevers, suppurative inflammation, phlegmon, variola, erysipelas, measles.
<i>Syzygium aromaticum</i> (L.) Merr. & Perry	Ding Xian (Clove)	(clove bud) Phytosterols, campesterol, crataegol acid, sitosterols, stigmasterol, niacin, ascorbic acid. ⁵⁰	Antiemetic, carminative, stimulant, treat diarrhea, halitosis, nasal polyps, uterine fluxes, sterility, toothache.
<i>Syzygium cumini</i> (L.) Skeels	Hei Nan Pu Tao	(bark, leaf) Betulinic acid, eugianin, friedelin, epifriedelanol, beta-sitosterol, acetyl oleanolic acid, ellagic acid, myricetin, cyanidin rhamnogluco- side, petunidin glucoside, maluidin glucoside, jambolin. ⁵⁷	Cooling effect, relieve itchiness, stop bleeding, infection, diarrhea.
<i>Tagetes erecta</i> L.	Chou Fu Yong (Marigold)	(leaf, flower) Alpha-terthienyl, d-limonene, l-linalool, tagetone, n-nonyl aldehyde. ⁵⁰	Treat sores and ulcers, cold, conjunctivitis, cough, mastitis, mumps.

<i>Tagetes patula</i> L.	Wan Shou Jiu (French marigold)	(whole plant) Tagetone, linalool, limonene, linalylacetate, ocimene, patuletin, patulitrin, cyanidin diglycoside, quercetagetin, quercetagetin, helenien, polythienyls. ⁵⁰ This herb is toxic.	For coughs and dysentery.
<i>Taliumm triangulare</i> Willd.	Tu Ren Shen	(root) ⁶⁰ No information is available in the literature.	A tonic for general weakness, treat inflammation, swelling.
<i>Tamarindus indicus</i> L.	Luo Huang Zi (Tamarind)	(stem, fruit) Tannins, beta-amyrin, campesterol, beta-sitosterol, palmitic acid, oleic acid, linoleic acid, eicosanoic acid, arabinose, xylose, galactose, glucose, uronic acid, pectins, mucilage, vitamin B. ^{60,216}	Diuretic, purgative, for liver disorders, inappetence, digestion, and hypoglycemic, hypocholesterolemic properties.
<i>Tamarix juniperina</i> Bunge.	Shen Liu (Tamarisk)	(young shoot, flower, gum) Quercetin-monomethylether. ⁴⁸	Treat cold, blood vomitting, respiratory infection.
<i>Taraxacum formosanum</i> Kitamura	Taiwan Pu Gong Ying	(aerial part) Taraxasterol, choline, inulin, pectins. ⁵⁴	Cure for swollen breasts, a diuretic, treat fever, tracheatis, hepatitis, tonsillitis.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)			
Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Taraxacum mongolicum</i> Hand-Mazz. <i>T. sinicum</i> Kitag.	Pu Gong Ying (Mongolian dandelion)	(aerial part) Taraxasterol, taraxerol, taraxol, taraxacerin, taraxacin, cryptoxanthin, zeaxanthin, lutein antheraxanthin, violaxanthin, neoxanthin, myristic acid, lauric acid, palmitic acid, stearic acid, beta-sitosterol, beta-amyrin, cysteic acid, cysteine, cystine, serine, glycine, asparagine, lysine, alanine. ^{33,48}	Antibacterial, antispasmodic, antiviral, a choleric agent.
<i>Taraxacum officinale</i> G. H. Weber ex Wigg.	Western Pu Gong Ying (Dandelion)	(root) Inulin, essential oils, choline, hydroxycinnamic acids, carotenes, ether oils, monoterpene, oxalic acids, hydrocyanic acids, sesquiterpene glucosides, flavonoids, hydroxybenzoic acid, coumarins, anthocyanidines, anthraquinones, phytosterines, squalene, ceryl alcohol, arabinose, vitamins A, B, C. ^{88,222,450}	Sudorific, stomachic, tonic, a remedy for sores, boils, ulcers, abscesses, snakebites.
<i>Taxus cuspidata</i> Sieb. et Zucc. <i>T. chinensis</i> (Pily) Rehd. <i>T. yunnanensis</i> Cheng et L. K. Fu	Zhu Shan, Huang Dao Shan (Yew tree)	(bark, leaf) Taxol, baccatin, cephalomannine, 10-deacetyl baccatin, yunnanxana, abietaxanes, taxinine E. ³³	Antineoplastic, anticancer, treat ovarian carcinoma.
<i>Tephrosia purpurea</i> Persoon	Hui Mao Dou	(root) Rotenone, degueline, tephrosin, rutin, quercetin glucoside. ⁵⁷	Used as a cordial and a stomachic, a deobstruent, emmenagogue.

<i>Terminalia chebula</i> Retz.	He Zi (Myrobalans)	(leaf, fruit) Chebolic acid, fatty oil, tannins, ellagic acid, chebulinic acid. ^{49,450}	An astringent in diarrhea, enterorrhagia, metrorrhagia, metritis, leukorrhea.
<i>Tetragonia tetragonoides</i> (Pall.) O. Kuntz.	Fan Xing	(leaf, stem) ⁶⁰ Phosphatidylcholine, phosphatidyl- ethanolamine, phosphatidyl-serine, phosphatidyl-inositol, tetragonin, trigonelline, choline, adenine. ⁵⁶	A remedy for carcinoma, treat ventriculi, stomach ulcers, leukemia.
<i>Thalictrum aquilegifolium</i> L. var. sibiricum Regel & Tiling <i>T. baicalense</i> Turcz. <i>T. baicalense</i> Turcz. f. levicarpum Tamura <i>T. fauriei</i> Hayata <i>T. petaloideum</i> L. <i>T. petaloideum</i> L. var. supradecompositum (Nakai) Kitag. <i>T. simplex</i> L. <i>T. simplex</i> L. var. affine (Ledeb.) Regel <i>T. simplex</i> L. var. brevipes Hara <i>T. squarrosum</i> Steph. ex Willd. <i>T. thunbergii</i> DC	Tang Song Cao (Meadow)	(root) Flavonoids, fetidine, phetidine, thalfoetidine, thalpine, thalpinine, rhalidasine, hernandezine, thelic simidine, coptisine, oxypurpureine, berbamine, isotetrandrine, alpha- allocryptopine, oxycanthine, isothalidenzine, glaucine, berberine, palmatine, jatrorrhizine, protopine, cryptopine, thalidezine. ^{48,53}	Anticancer activity, treat fever, nausea, thirst, hemorrhages, and conjunctivitis.
<i>Thalictrum foetidum</i> L.	Taiwan Tang Song Cao	(whole plant) Thalfoetidine, thalpine, thalpinine, fetidine, flavonoid glycoside, saponin, cardiac glucoside, berberine, magnoflorine, palmitine, jatrorrhizine. ⁵⁶	Lower blood pressure, treat hepatitis, cold, arthritis, intestinal infection.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Thalictrum ichangense</i> Lecoyer ex Oliver <i>T. glandulissimum</i> L.	Ma Wei Lian	(rhizome) Berberine, palmatine, jatrorhizine, talictrine, thalidasine, thalicarpine, saponaretin. ³³	Antibacterial, treat influenza, childhood fevers, measles, malaria.
<i>Thea assamica</i> Mast <i>T. bohea</i> L. <i>T. cantoniensis</i> Lour. <i>T. chinensis</i> Sims. <i>T. cochinchinensis</i> Lour. <i>T. sinensis</i> L. <i>T. viridis</i> Link.	Cha (Tea)	(leaf) Caffeine, theophylline, tannic acid, theobromine, xanthine, polyphenols. ^{33,47,405,406,409}	Diuretic effect, increase renal blood flow, stimulate central nervous system, antitumor, prevent lung cancer.
<i>Thesium chinense</i> Turcz.	Bai Rui Cao	(whole plant) Flavonoids, mannitol. ⁴⁸	Breast gland, lung, throat, tonsil infections, fever caused by cold, relieve swelling.
<i>Thevetia peruviana</i> (Pers.) K. Schum.	Huang Hua Jia Zhu Tao	(seed, flower, leaf) Thevetin A and B, theveside, peruvosides, vertiaflavone, theviridoside. ³³	Tranquilizing effect, treat congestive heart failure.
<i>Thlaspi arvense</i> L.	Jin Moa (Field pennycress)	(aerial part) Sinigrin, fatty acids, essential oil, myrocin, myrosinase. ⁴⁸	For ophthalmia, lumbago, an antidote, antipyretic, improves circulation, diaphoretic.
<i>Thuja chinensis</i> Hort. <i>T. koraiensis</i> Nakai <i>T. orientalis</i> L. (Syn. <i>Biota orientalis</i> , <i>Platycladus orientalis</i>)	Ce Bai Ye (Oriental arborvitae)	(seed kernel, young leaf) Thujene, thujone, fenchone, pinene, caryophyllene, aromadendrin, quercetin, myricetin, hinokiflavone, amentoflavone. ^{48,353}	Antipyretic, astringent, diuretic, for dysmenorrhea, epistaxis, gonorrhea, metrorrhagia.

<i>Thymus amurensis</i> Klokov <i>T. disjunctus</i> Klokov <i>T. kitagawianus</i> Tscherneva <i>T. komarovii</i> Sergievskaja <i>T. przewalskii</i> (Kom.) Nakai <i>T. quinquecostatus</i> Celakovsky	Di Jiao	(aerial part) Scutellarein heteroside, luteolin-7-glucoside, apigenin, volatile oils, carvacrol, p-cymene, p-terpinene, alpha-terpineol, zingiberene, borneol, ursolic acid, thymol. ⁴⁸	Treat high blood pressure, stomachache, intestinal infection, cough, digestion, diarrhea.
<i>Thymus vulgaris</i> L.	She Xiang Cao (Thyme)	(aerial part) Tymol, terpinen-4-ol, pinenes, camphene, myrcene, alpha-phellandrene, limonene, 1,8-cineol, p-cymene, linalool, linalyl acetate, bornyl acetate, alpha-terpinyl acetate, alpha-terpineol, borneol, citral, geraniol, carvacrol. ^{50,510}	Anthelmintic, antispasmodic, carminative, diaphoretic, sedative. Treat bronchitis, cancer, diarrhea, gastritis, rheumatism, skin ailments.
<i>Tilia amurensis</i> Rupr. <i>T. mandshurica</i> Rupr. & Maxim. <i>T. mongolica</i> Maxim.	Zi Duan (Linden)	(flower, stem, leaf) Flavonoids, essential oils. ⁴⁸	Promote sweating, bactericidal, treat cold, kidney infection, throat infection.
<i>Tinnevelly senna</i> O. Kuntz. (Syn. <i>Cassia angustifolia</i>)	Fan Xie Ye	See <i>Cassia angustifolia</i>	
<i>Trachelospermum jasminoides</i> Lam.	Luo Shi (Star jasmine)	(stem) Tracheloside, nortracheloside, matairesinoside. ³³	Relieve muscle rigidity, remove blood stasis, stop bleeding.
<i>Trachycarpus wagnerianus</i> Beccari <i>T. fortunei</i> H. Wendl.	Zong Lu	(seed) Mannosan, galactan, saccharose, tannins. ⁴⁹	As astringent, hemostatic.
<i>Trapa bispinosa</i> Roxb.	Ling (Water chestnut)	(fruit) Ergostatetraen, dihydrostigmast, beta-sitosterol, amylose, protein. ⁴⁸	Treat stomach ulcer, diarrhea, breast, ovary, gullet cancer.
<i>Tribulus terrestris</i> L.	Ci Hi Li (Calthrop)	(fruit) Glycosides tribuloside, astragalín, harmane, harmine. ³³	Anticonvulsive, a spasmolytic agent.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Trichosanthes kirilowii</i> Maxim. <i>T. uniflora</i> Hao	Gua Lou, Tian Hua Fen (Chinese snakegourd)	(root, seed) Trichosanthin, polysaccharides, saponin, organic acids, resin, protein (TAP29). ^{33,261} This herb is highly toxic.	Treat pectoris and acute mastitis. Antitussive, as an expectorant, anti-HIV activity.
<i>Trifolium pratense</i> L. <i>T. repens</i> L.	Che Zhou Cao (Red clover)	(whole plant) Phytoestrogens, genisteine, iodine, daidzein, formononetin. ^{33,48,221}	Stimulating effect on female reproductive organs.
<i>Trigonella foenum-graecum</i> L.	Wu Ru Ba (Fenugreek)	(seed) Trigonelline, saponins, flavone derivatives including vitex, saponaretin, isoorientin, vitexin-7-glucoside. ³³	Reduce plasma cholesterol levels, support hepatic and renal functions.
<i>Trillium camschatcense</i> Ker-Gawler	Yan Ling Cao	(root) Trillin, trillarin, diosgenin, cyasterone, ecdysterone. ⁴⁸	Improve blood circulation, detoxicant, treat headache, high blood pressure, stop bleeding.
<i>Tripterygium hypoglaucum</i> (Levl.) Hutch.	Shan Hai Ton or Zi Jin Pi	(whole plant) Alkaloides, triptolide. ³³	Anti-inflammatory, antismelling.
<i>Tripterygium wilfordii</i> Hook. f.	Lei Gong Teng (Yellow vine)	(root) Triptochlorolide, celastrol, triptein, wilfordine, triptophenolide, triptonide, triptolide, triptidiolide, triptolidenol, triptochlorolide, triptolide, triptidioltonide, trihydroxytriptolide, triptolide. ^{33,241,390,431,443} This herb is toxic with adverse effects on gastrointestinal tract.	Antifertility effect on male, anti-inflammatory, antitumor, treat cancer, antirheumatoid arthritis, suppressive effects.

<i>Triticum vulgare</i> Vill.	Foo Shao Mai (Wheat)	(kernel) Protein, fat, carbohydrate, vitamins A, B, E, G. ⁴⁹	Sedative, antipyretic in night sweats, insomnia.
<i>Tulipa edulis</i> Bak. <i>T. gesneriana</i> L.	Shan Ci Ko Yu Jin Xian (Tulip)	(bulb) Colchicine, alkaloids, starch. ⁴⁸	Relieve swelling, lymphatic gland infection, throat infection.
<i>Tussilago farfara</i> L.	Kuan Dong Hua (Colts foot)	(flower bud) Faradiol, rutin, hyperin, saponins, taraxanthin, tannins, essential oil. ³³	Antitussive, expectorant, antiasthmatic, stimulate the medullary center and slowly raise blood pressure.
<i>Typha angustata</i> Bory et Chaub. <i>T. angustifolia</i> L. <i>T. davidiana</i> (Kronfeld) Hand. Mazz. <i>T. latifolia</i> L. <i>T. minima</i> Hoppe <i>T. orientalis</i> Presl. <i>T. praequalis</i> Skv.	Pu Huang (Bulrush)	(pollen) Isothamnetin, alpha-typhasterol, oligosaccharides. ³³	Treat hypercholesteremia, angina pectoris, exudative eczema, postdelivery bleeding, stop bleeding in hematemesis and hematuria.
<i>Typhonium divaricatum</i> (L.) Decaisne	Li Tou Cao	(leaf, tuber) ^{50,144} This herb is toxic. Overdose causes numbness or nausea.	An expectorant, rubefacient, used for cough and pulmonary disorders.
<i>Typhonium giganteum</i> Engl.	Du Jiao Lian	(whole plant) Uracil, succinic acid, tyrosine, valine, linolein, dipalmitin. ⁴⁸	Antispasmodic, carminative, for apoplexy, headache, paralysis.
<i>Ulmus campestris</i> L. <i>U. macrocarpa</i> Hance <i>U. pumila</i> L.	Yu Bai Pi (Siberian elm, Chinese elm)	(leaf) Butyric acid, capric acid, lipase, hexylenaldehyde, phlobaphene, phytosterol, sitosterol. ⁵⁰	For urinary calculi, diuretic, febrifuge.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Uncaria hirsuta</i> Havil <i>U. rhynchophylla</i> Miq. (Syn. <i>Nauclea sinensis</i> Oliv.)	Gou Teng (Gambir)	(stem) Rhynchophylline, corynoxene, iso-rhynchophylline, isocorynoxene, corynantheine, hirsutine, hirsuteine. ³³	A sedative, anticonvulsive, lower blood pressure, it has a triphasic effect. Treat childhood epilepsy.
<i>Uraria crinita</i> Desvaux <i>U. lagopodioides</i> (L.) Desvaux	Hu Li Wei Tu Wei Cao	(leaf, root) Vitexin, vitexin-7-0-glucoside, orientin-7-0-glucoside, saponartin-4'-0-glucoside. ⁵⁶	Treat hemorrhoids, dysentery, diarrhea, cough, pain, arthritis, irregular menses.
<i>Urena procumbens</i> L.	Fan Tian Hua (Duck foot)	(leaf, twig) Phenols, flavonoid glycoside, amino acids. ⁵⁷	Treat rheumatism, toothache
<i>Urtica angustifolia</i> Fisch. ex Hornem. <i>U. cannabina</i> L. <i>U. cannabina</i> L. f. <i>angustiloba</i> Chu <i>U. lobata</i> L. <i>U. tenacissima</i> Roxb. <i>U. urens</i> L. <i>U. utilis</i> Hort. (Syn. <i>Boehmeria nivea</i>)	Yu Ma (Chinese nettle)	(root) Chlorogenic acid, alkaloids, 5-hydroxytryptamine, protein, fat, carbohydrate, ash, fabric. ^{48,49,304}	Diuretic, tonic, stomachache, arthritis.
<i>Urtica laetevirens</i> Maxim.	Shi Mu Zi	See <i>Urtica angustifolia</i>	
<i>Usnea diffracta</i> Dill. ex Adans. <i>U. longissima</i> Acharius	Lao Jium Xiu Song Lo	(whole plant) Barbatic acid, usnic acid, diffractaic acid, ramalic acid, lichenin. ⁵⁴	Treat throat discharges, malaria, headache, cough, a detoxicant.

<i>Vaccaria segetalis</i> (Neck.) Garcke <i>V. pyramidata</i> Medic.	Wang Bu Liu Xing Liu Xing Zi (Cow cockle)	(seed) Vacsegoiside, vaccaroside, gypsogenin, vaccarin. ³³	Activate blood flow, promote milk secretion, treat amenorrhea and breast infections.
<i>Vaccinium bracteatum</i> Thunb. <i>V. vitis-idaea</i> L.	Wu Fan Shu (Mountain cranberry)	(leaf) 6-o-acetyl-arbutin, arbutin, avicularin, 2-o-caffeoylarbutin, d-catechol, l-epicatechol, d-galocatechol, hyperin, hyperoside, sioquercitrin, salidroside, tannins, ursone. ⁵⁰	For gonorrhea.
<i>Valeriana alternifolia</i> Bunge. <i>V. alternifolia</i> Bunge. var. stolonifera Baranov & Skv. <i>V. alternifolia</i> Bunge. var. stolonifera Baranov & Skv. F. angustifolia (Kom.) Kitag. <i>V. amurensis</i> P. Smiru. ex Kom. <i>V. fauriei</i> Briq. <i>V. fauriei</i> Briq. var. dasycarpa Hara <i>V. subbipinnatifolia</i> A. Baranow.	Jiao Cao	(root) Bornyl isovalerate, isovaleric acid, borneol, camphene, pinene, d-terpineol, l-limonene, pyrrol- methyl ketone, alpha-fenchene, myrcene, phellandrene, l-caryophyllene, erpinene, terpinolene, eremophilene, selinene, cadinene, valerianol, valerenone, myrtenol, bisabolene, chatinine, caffeic acid. ^{48,510}	Antispasmodic, aphrodisiac, emmenagogue, stimulant, sudorific, backache, cramps, influenza, nausea, numbness.
<i>Veratrum dahuricum</i> (Turcz.) Loes <i>V. maackii</i> Regel <i>V. nigrum</i> L.	Li Lu (Mountain onion)	(rhizome) Jervine, pseudojervine, rubijervine, tienmulilmine, tienmulilminine, zygadenine, gerrmine. ³³ This herb may cause mucosal irritation.	Lower blood pressure, slow heart rate, antibacterial. It has insecticidal effect.
<i>Veratrum formosanum</i> Loesener	Taiwan Li Lu	(root) Protoveratrine, jervine, alkaloids, veratramine. ⁵⁵	Lower blood pressure, stop vomitting, antifungal, a stimulant.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Verbena officinalis</i> L. <i>V. oxysepalum</i> Turcz.	Ma Bian Cao (Vervain)	(aerial part) Verbenalin, verbenalol, adenosine, tannins, essential oils. ³³	Antiplasmodial, antibacterial, antitoxin, anti-inflammatory.
<i>Vernonia andersonii</i> C. B. Carke <i>V. cinerea</i> (L.) Less. <i>V. patula</i> (Ait.) Merr.	Ban Jiu Jiu Shang Han Cao Xian Xia Hua	(leaf, root) Triterpinoid, alkaloid, saponin. ⁸⁹	As restorative, febrifuge and antidiarrheic, treat colic, stomachache.
<i>Veronica anagallis-aquatica</i> L. <i>V. anagallis-aquatica</i> L. f. <i>pumila</i> Kitag.	Shui Ku Shi (Speedwell)	(root) Aucubin. ⁵⁰	For fever, a gargle for throat ailments, stomatitis.
<i>Veronica linariaefolia</i> Pall. ex Link <i>V. linariaefolia</i> Pall. ex Link subsp. <i>dilatata</i> (Nakai et Kitag.) Hong	Shui Man Chin	(whole plant) Cordycepic acid, flavonoids. ⁴⁸	For windpipe infection, blood vomiting, relieve pain, detoxicant.
<i>Veronica sibirica</i> L. <i>V. sibirica</i> L. f. <i>glabra</i> (Nakai) Kitag. <i>V. undulata</i> Wallich	Po Po Na	(whole plant) Mannitol, veronicastroside, inteolin-7- β -neohesperidoside, luteolin, 7- β -glucopyranoside, aucubin, arbutin. ⁴⁸	Relieve swelling, stop bleeding, treat cold, cough.
<i>Viburnum sargentii</i> Koehne f. <i>glabrum</i> Kom. <i>V. sargentii</i> Koehne f. <i>intermedium</i> (Kom.) Kitag. <i>V. sargentii</i> Koehne var. <i>puberulum</i> (Kom.) Kitag.	Shan Teng Zi (Snowball)	(whole plant) Scopoletin, aesculetin, caffeic acid, citric acid, malic acid, chlorogenic acid, isochlorogenic acid, essential oil, kaempferol-3-glucoside, beta-amyrin, beta-sitosterol, paeonin. ⁴⁸	For blood circulation, swelling, detoxicant, relieve itchiness, arthritis.

<i>Vicia faba</i> L.	Cam Dou (Horsebean)	(aerial part) Betulin, fumaric acid, kaempferol. ⁵⁰	Antitumor.
<i>Viola acuminata</i> Ledeb. <i>V. alisoviana</i> Kiss <i>V. alisoviana</i> Kiss f. <i>candida</i> (Kitag.) Takenouchi <i>V. alisoviana</i> Kiss f. <i>intermedia</i> (Kitag.) Takenouchi <i>V. collina</i> Bess. <i>V. dissecta</i> Ledeb. <i>V. dissecta</i> Ledeb. f. <i>pubescens</i> (Regel) Kitag. <i>V. mandshurica</i> W. Becker <i>V. patrini</i> DC ex Ging. <i>V. prionantha</i> Bunge. <i>V. verecunda</i> A. Gray	Jin Cai (Violet)	(whole plant) Saturated acids, cerotic acid, unsaturated acids, hydrocarbons, alcohols. ^{43,48}	Mucilaginous, emollient, suppurative inflammations, abscesses, ulcers.
<i>Viscum album</i> L. subsp. <i>coloratum</i> Kom. <i>V. album</i> L. subsp. <i>coloratum</i> Kom. f. <i>rubroaurantiacum</i> (Makino) Kitag. <i>V. coloratum</i> (Kom.) Nakai	Hu Ji Shang (Asiatic mistletoe)	(leaf, stem) Oleanolic acid, beta-amyrin, fatty acids, mesoinositol, flavoyadorinin, homoflavoyadorinin, lupeol, myristic acid, agglutinins, alkaloids, quercitol, querbrachitol, quercetine, acetylcholine, choline, histamine, tyramine, vitamins E and C. ^{33,450}	Antihypertensive, prolong the life of patients with late stage stomach cancer.
<i>Vitex chinensis</i> Miller <i>V. jeguaod</i> L.	Mu Jing	(leaf) Essential oils, beta-caryophyllene, caryophyllene oxide. ³³	Antitussive, antiasthmatic, antibacterial.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Vitex nequundo</i> L.	Huong Jing (Five-leaved chaste tree)	(leaf, fruit, root) Essential oil, phenolic derivatives, cineol acid, pinene acid, dipentene, citronellol, geraniol, eugenol, camphene, delta-3-carene, tannic acid, nishindine, hydrocotylene, glucononitol, hydroxybenzoic acid, iridoidglycoside-nishindaside, negundoside, aucubin, agnuside, casticin, orientin, isoorientin. ^{50,450}	An astringent, sedative, for cholera, eczema, gravel, anxiety, convulsions, cough, headache, vertigo.
<i>Vitex trifolia</i> L. var. <i>simplicifolia</i> Cham. <i>V. rotundifolia</i> L. f.	Mu Jing Chi Dan Ye Mu Jing (Indian privet, seashore vitex)	(fruit, leaf, shoot) Camphene, pinene, vitricine, terpenylacetate, aucubin, agnuside, casticin, orientin, isoorientin, luteolin-7-glucoside, vitexicarpin, casticin, flavons. ^{48,50}	For fever, analgesic sedative, promote beard growth, breast cancer.
<i>Vitis amurensis</i> Rupr. <i>V. vinifera</i> L.	Shan Pu Tao (Wine grape)	(leaf, fruit) Malic acid, tartaric acid, racemic acid, oxalic acid. ⁵⁰	For abortion, cholera, dropsy, nausea.
<i>Wahlenbergia marginata</i> (Thunb.) A. DC	Xi Ye Sha Seng	(root) Alkaloids. ⁵⁵	Treat pulmonary disorder, skin eruption, stop sweating.
<i>Wikstroemia indica</i> C. A. Meyer	Liao Ge Wang	(root) Wikstroemin, hydroxygenkwanin, daphnetin, acidic resin. ³³	Antibacterial.
<i>Wisteria sinensis</i> (Sims) Sweet	Zi Teng (Chinese wisteria)	(seed, bark) Toxic glycosides, toxic resin. ⁶⁰ This herb is toxic.	Diuretic.

<i>Woodwardia japonica</i> (Lif.) Sm.	Gou Ji Guan Zhong (Chain fern)	(rhizome) Inokosterone, woodwardic acid, woodorien. ³³	Antiviral, against herpes simplex virus type-1.
<i>Xanthium chinense</i> Mill. <i>X. japonicum</i> Widder <i>X. mongolicum</i> Kitag. <i>X. sibiricum</i> Patr. ex Widd. <i>X. strumarium</i> L.	Cang Er (Cocklebur)	(fruit) Xanthinin, xanthumin, xanthanol, isoxanthanol, strumaroside, tetrahydroxy flavone, caffeic acid, dicafeoylquinic acid. ^{33,48}	Antibacterial, antitussive, respiratory stimulating effect, lower blood pressure and blood sugar levels.
<i>Xanthoxylum piperitum</i> DC	Chuan Jian	(fruit) Essential oils, phellandrene, limonene, citronellol, geraniol, and sanshol in fruit; sesquiterpene lactones-xanthatin, limonene in seed; saponin, citral, citronellol, geraniol in leaf; berberine, xanthoxylinin root. ^{49,450}	Diaphoretic properties, prophylactic against hydrophobia, used as a diuretic, stomachic, carminative, stimulant, resolving inflammatory swellings, it is sedative.
<i>Zanthoxylum ailanthoides</i> Sieb. et Zucc.	Shi Zhu Yu	(aerial part) Essential oils, methyl n-nonylketone, isopimpinellin, dictamine, skimmianine, magnoflorine, laurifoline. ^{64,94}	Treat chills, influenza, sunstroke, indigestion.
<i>Zanthoxylum bungeanum</i> Maxim.	Shan Hua Jiao (Szechuan pepper)	(fruit, leaf, seed) Essential oils, limonene, cumic alcohol, linalool, myrcene, benzene <i>tert</i> -butyl, sabinene, rerpinenol, piperitone, beta-gurjunene, alpha- piene, geraniol, estragole, cadinene, clovene. ⁵³	Anthelmintic, aromatic, astringent, carminative, emmenagogue, stimulant, sudorific.

Table 1 Major Constituents and Therapeutic Values of Chinese Medicinal Herbs (continued)

Scientific Name	Common Chinese and (English) Name	Major Constituents and (sources)	Therapeutic Values*
<i>Zanthoxylum nitidum</i> (Roxb.) DC	Shuang Mian Ci (Shiny bramble)	(root) Nitidine, oxynitidine, vitexin, 6-ethoxy-chelerythrin, diosmin, oxynitidine, oxychelerythrine, N-desmethylchelerythrine, skimmianine. ^{33,50,53}	Analgesic, anodyne, antitumor against leukemia, carminative, detoxicant, increase blood flow.
<i>Zanthoxylum schinifolium</i> Sieb. et Zucc.	Hua Jiao (Pepper)	(pericarp) Estragol, citronellol, phellandrene, xanthoxylene, skimmianine, magnoflorine, xanthoplanine, dictamnine, bergapten, berberine, esculetin dimethyl ether. ^{33,48,53}	Treat ascaris, relieve abdominal pain caused by ascariar obstruction.
<i>Zea mays</i> L.	Yu Mi Xu (Corn)	(leaf, flower, root, seed) Carbohydrate, beta-carotene, thiamine, riboflavin, niacin, ascorbic acid. ⁵⁰	For dropsy, diabetes mellitus, hypertension, epistaxis, menorrhagia, cancers, tumors, warts.
<i>Zephyranthes candida</i> Herbert	Cong Lan (White zephyrlily)	(aerial part) Lycorine, haemanthidien, nerinine, taxettin. ⁵⁰	For convulsion, hepatitis.
<i>Zephyranthes carinata</i> Herbert	Jiu Lan	(leaf, bulb) Alkaloids, lycorine. ^{63,93}	To relieve fever, used as as poultice for abscesses.
<i>Zingiber officinale</i> Roscoe	Sheng Jiang (Ginger)	(root) Essential oils, zingiberol, zingiberene, phellandrene, camphene, citral, linalool, methylheptenone, nonylaldehyde, d-borneol, gingerol. ^{53,398,510}	Anti-inflammatory, antitumor, stimulates gastric secretion.

<i>Zingiber zerumbet</i> Smith	Qiu Jiang (Ginger)	(rhizome) ^{55,60} 3".4"-O-diacetylfzelin, zerumbone, zerumbone epoxide, curcuminoids diferuloylmethane, feruloyl-p-coumaroylmethane, di-p-coumaroylmethane, essential oils, alpha-humulene. ^{192,193,195} These compounds are cytotoxic.	A tonic, stimulant, depurative, to treat asthma, stomachache, antimicrobial properties. This plant plays an important role in masculine rituals and it makes women sterile.
<i>Ziziphus jujuba</i> Mill. <i>Z. spinosa</i>	Suan Zao or Suan Zao Ren (Jujube, Chinese date)	(seed) Saponins, betulinic acid, betulic acid, betulin, jujuboside A, jujuboside B, sanjoinines, daechu alkaloids. ^{1,33,44,53}	For insomnia, neurasthenia, and irritation.

* This information should not be used for the diagnosis, treatment, or prevention of diseases in humans. The information contained herein is in no way intended to be a guide to medical practice or a recommendation that herbs be used for medicinal purposes. The information is presented here mainly for educational purposes and should not be used to promote the sale of any product or replace the services of a physician.

PART 2

Phyletic Relationships between Chinese and Western Medicinal Herbs

The recognition that active ingredients extracted from native herbs may have potential utility in modern medicine has given new incentive to worldwide efforts to conserve vulnerable populations of wild plant species.⁵⁰ During the past decade, market demand for Chinese herbs around the world has increased sharply. And these resources have been avidly sought as raw material by drug processors in the East as well as the West. As a result of mass collecting, many natural habitats and the plant communities which they sustain have been decimated and some species are threatened or have become scarce.

Many Chinese herbal species currently are unavailable commercially in North America. However, hundreds of Chinese medicinal herbs commonly used in China also can be found in natural habitats in North America. The majority have a phyletic relationship with either the same species or the same genus of Chinese herb (see Tables 3 & 4). Some of the principal ingredients in Chinese herbs can be extracted from related plant species in the West. Thus, it may be possible to substitute Chinese herbs with more readily available herbs in the West. Moreover, these North American plants are, or can be, cultivated, harvested, and processed under proper management that will ensure their safety, quality, and efficacy.

The information presented herein is intended for use by biologists, chemists, and the interested layman as a guide to the Chinese medicinal plant resources and their uses.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Abrus precatorius</i> L.	China	L-abrine, precatorine, squalene, hypaphorine, trigonelline, cycloarterenol, 5- β -cholanic acid. ³³	Antiemetic, an expectorant, parasiticide.
	N.A.	Seeds: Abrin, anthocyanins, indole alkaloids. Root and leaves: glycyrrhizin, abrin. This herb is toxic. ¹⁰⁰	Seeds: A contraceptive, abortifacient, treat chronic conjunctivitis. Leaves: treat asthma, bronchitis.
<i>Acacia catechu</i> Willd.	China	d-catechin, epicatechin, gambir-fluorescein, gambirine, mitraphylline, roxburghine D. ³³	Promote salivation, resolve phlegm, stop bleeding, treat pyogenic infections.
	N.A.	Tannins, mucilage, flavonoids, resins. ¹⁰⁰	An astringent, clotting agent, it helps reduce excess mucus in the nose, the large bowel, or vagina. It treats eczema, hemorrhages, diarrhea, and dysentery.
<i>Acalypha indica</i> L.	China	Acalyphine. ⁵⁵	Diuretic, treat diarrhea.
	N.A.	Acalyphine, resin, tannins, volatile oil, cyanogenic glucoside, triacetanamine, querbrachitol, hydrociannic acid. ¹⁰⁰	A diaphoretic, expectorant, laxative. Leaves used as an anthelmintic.
<i>Achillea millefolium</i> L.	China	Alkaloids, essential oils, flavonoids, achillin, betonicine, achilleine, d-camphor, desacetylmaticarin. ³³	Antibacterial, treat menopause, abdominal pain, acute enteritis, wound infection, snakebite.
	N.A.	Achilleine, tannins, cineole, chamazulene, sesquiterpene, lactones, menthol, camphor, sterols, triterpenes. ^{98,99,100,101,102,103}	Reduce fever, anti-inflammatory, treat common cold, diarrhea, dysentery, hypertension, and gastrointestinal complaints.

<i>Achyranthes bidentata</i> L.	China	Inokosterone, ecdysterone, polysaccharides. ³³	Anticancer.
	N.A.	Triterpenoid saponins. ⁹⁹	Treat canker sores, toothache, bleeding gums and nosebleeds. Invigorate blood flow, stimulate menstruation, ease menstrual pain.
<i>Aconitum carmichaelii</i> Debeaux	China	Aconitine, hypaconitine, mesaconitine, talatisamine. ³³	A cardiotonic.
	N.A.	Aconitine, malonic acid, caffeic acid, hypaconitine, mesaconitine, neoline, napelline, benzol-aconitine. ^{100,102,104}	For congestive heart failure.
<i>Aconitum napellus</i> L.	China	Aconitine, hypaconitine, mesaconitine, talatisamine. ³³ This herb is highly toxic.	A cardiotonic.
	N.A.	Aconitine, malonic acid, caffeic acid, hypaconitine, mesaconitine, neoline, napelline, benzol-aconitine. ^{100,102,104} This herb is toxic.	Heart and nerve sedative, anticarcinogenic, reduce fever.
<i>Acorus calamus</i> L. <i>A. gramineus</i> Ait.	China	Acoric acid. ⁵⁰	Anticonvulsant, analgesic, aphrodisiac, carminative, contraceptive, dessicant, diaphoretic.
	N.A.	Acoric acid, asarone, linalool, palmitic acid, methylamine, saponin, mucilage, sesquiterpenes. ^{99,100,103,105}	Used as a panacea. It is antibacterial, antifungal, antiseptic, antiamebic, antiprotozoal, a vermifuge. Treat digestive upset, fevers.
<i>Actinidia polygama</i> (Sieb. et Zucc.) Planch ex Maxim.	China	Matatabic acid, iridomyrmecin, actinidine, allomatatabiol, iridomyrmecin, neo-nepetalactone, dihydronepetalactol, matatabiether, isoneomatatabiol, matatabistic acid, neomatatabiol, vitamin C, vitamin B. ^{48,50,52}	Used for esophagial and liver cancers, rheumatoid arthritis, arthralgia, urinary stones, fever.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Actindine. ¹⁰⁰	For colic, rheumatism.
<i>Adiantum capillus-junonis</i> Rupr.	China	Adipedatol, adiantone, hopadiene, isoadiantone, isofernene, fernene, gamma-fernene, filicene, filicenol, fernadiene. ⁴⁸	Treat cold and grippe.
	N.A.	Rutin, isoquercetin, terpenoids, adiantone, tannin, mucilage. ⁹⁹	Treat coughs, bronchitis, excess mucus, sore throat, chronic nasal congestion.
<i>Adonis vernalis</i> L.	China	Cymarol, corchoroside A, convallatoxin, adonilide, isoramanone, pergularin. ³³ This herb is toxic.	Treat heart disease and central depression, diuretic.
	N.A.	Adonitoxin. ⁹⁹ This herb is toxic.	Treat venereal disease, heart disorders, sedative.
<i>Aesculus hippocastanum</i> L.	China	Protoescigenine, escigenin, oligosaccharides, amylose. ³³	Promote circulation, relieve epigastrium pain, promote digestion.
	N.A.	Aescin, citric acid, resin, saponin, tannin, uric acid, quercetin, kaempferol, flavonoids, coumarin derivatives. ^{99,100}	Antipyretic, antithrombin, antiexudative. Treat lymphatic congestions, cerebral and pulmonary edema, crural ulcer and hemorrhoidal complaints.
<i>Agrimonia eupatoria</i> L.	China	Agrimophol, agrimols, agrimonine, agrimonolide, luteolin-7- β -D-glucoside, apigenin-7- β -D-glucoside, cosmosiin, vitamin c, vitamin K, tannin. ^{33,48,49}	An astringent hemostatic in enterorrhagia, hematuria, metrorrhagia, gastrorrhagia, pulmonary, tuberculosis. A cardiotonic.
	N.A.	Tannins, coumarins, flavonoids, luteolin, polysaccharides. ^{99,106}	Heal wounds and encourages clot formation, treat diarrhea, used as a tonic for digestion.

<i>Ailanthus altissima</i> (Mill.) Swingle	China	Amarolide, ailanthone, afzelin, syringic acid, vanillic acid, beta-sitosterol, azelaic acid, d-mannitol, amarolide, oleorsin, mucilage. ^{33,48}	Antidiarrheal, treat dysentery, duodenol ulcers. Astringent, anthelmintic, deobstruent.
	N.A.	Quassinoids, ailanthone, quassin, alkaloids, flavonols, tannins. ⁹⁹	Antimalarial, against cancerous cells, counter worms, excessive vaginal discharge, gonorrhea, malaria, antispasmodic, cardiac depressant.
<i>Aleurites moluceanu</i> (L.) Willd.	China	Saponin, alpha-elaeo stearic, oleic acid, palmitic acid, stearic acid, tannins, phytosterols. ⁵⁰	Treat anemia, atrophy, edema, vermicide, oil (toxic internally) for parasitic skin diseases.
	N.A.	Oleostearic acid, hydrociannic acid, tannin, linolenic acid, oleic acid, linoleic acid, protein, thiamine. ¹⁰⁰ This herb is toxic.	Laxative, stimulant, and sudorific.
<i>Allium sativum</i> L. <i>A. fistulosum</i> L. <i>A. tuberosum</i> Rottl.	China	Allicin, allistatin, glucominol, neo-allicin, steroid saponins, polysaccharides, proto-isomerubosides, diallyl sulfide. ^{33,49,510}	Antibacterial, antimutagenic, anticarcinogenic, carminative, abtuarrhythmic, lower plasma cholesterol and low-density lipoproteins, prevent thrombosis, hypotensive and vessel protective effect.
	N.A.	Alliin, iodine, diallyl trisulfide, 2-vinyl-4h-1,3-dithin, ajoene, linoleic acid, diallyl disulfide, scordinins, selenium. ^{98,99,107,511}	Reduce serum cholesterol, lower blood pressure, and platelet aggregation. It is anticancer, antimicrobial, antithrombotic.
<i>Aloe barbadensis</i> Miller <i>A. vera</i> L.	China	Aloins, barbaloin, aloe-emodin. ^{49,50,510}	Laxative, stomachic, emmenagogue.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Aloin isobarbaloin, aloeresin A, B, aloesin glycone, aloesone, emodin, chrysophanic acid, 1,8-dihydroxy-anthracene derivatives, barbaloin, anthaquinone glycosides. ^{99,100,108,109,510,511}	Purgative, eupeptic, and cholagogue effect. It is a laxative and cathartic. Juice from leaves used for cuts and other skin problems.
<i>Alstonia scholaris</i> (L.) R. Br.	China	Picrinine, picralinal, echitamine, echitamidine. ³³	An expectorant, antiphlogistic.
	N.A.	Alkaloids, reserpine. ⁹⁹ This herb is toxic.	Treat malarial fever, antispasmodic, lower blood pressure, reduce high blood pressure.
<i>Anagalis arvensis</i> L.	China	Anagalline, anagalligenone, cucurbitacins, arrenin. ⁵⁵	Treat snakebite, dog bite, antitoxic.
	N.A.	Saponins, anagalline, tannins, cucurbitacins.	Diuretic, sweat-inducing and expectorant properties.
<i>Ananas comosus</i> (L.) Merrill	China	Ergosterol peroxide, ananasic acid, 5-stigmautena-3 β ,7d-diol, 3,4-dihydroxycinnamic acid, 4-hydroxycinnamic acid, bromelin, vitamins. ⁵⁷	Antioxndant activity, for digestion, lower blood pressure, anticancer.
	N.A.	Bromelain, citric acid, vanillin, methyl-n-propyl ketone, valerianic acid, malic acid, isocaproic acid, acrylic acid. ¹⁰⁰	Unripe fruits improve digestion, increase appetite, relieve dyspepsia. Ripe fruits reduce excessive gastric acid.
<i>Anemone pulsatilla</i> L.	China	Saponins, protoanemonin. ⁴⁹	A cardiac and nervous sedative, antispasmodic, anodyne in asthma and pulmonary infections, antidiarrheic.

	N.A.	Ranunculin, tannin, resin, saponin, anemonin, delphinidin, pelargonidin glycosides, beta-amyrin, beta-sitosterol.	Treat asthma, bronchitis, catarrh, diarrhea, rheumatism, and warts. It is alterative, antidotal, diuretic and emmenagogue.
<i>Anethum graveoleus</i> L.	China	Essential oils, d-carvone, dillapiole, limonene, bergapten, umbelliprenin, camphene, dihydrocarvone, dillapiole, dipentene, isomyristicin. ^{48,50}	Carminative, stimulant.
	N.A.	Carvone, limonene, flavonoids, coumarins, xanthones, triterpenes. ^{99,100,107}	Used for infant colic, cough, cold and flu remedies. It relieves digestive disorders.
<i>Angelica polymorpha</i> Max.	China	Vitamin B ₁₂ , vitamin E, ferulic acid, succinic acid, nicotinic acid, uracil, adenine, butylidenephthalide, ligustilide, folic acid, biotin, polysaccharide. ³³	Treat irregular menstruation, anemia, thrombophlebitis, neuralgia, arthritis, chronic nephritis, constrictive aortitis, skin disease such as eczematous dermatitis.
	N.A.	Butylphthalide, cadinene, carvacrol, n-dodecanol, isosafrole, linoleic acid, palmitic acid, safrole, sesquiterpene, sesquiterpenic alcohol, n-tetradecanol. ¹⁰⁰	Immunosuppressive activity, treat hay fever, asthma, and atopic dermatitis. Analgesic, deobstruent, emmenagogue, sedative.
<i>Apium graveolens</i> L.	China	Apiin, graveobioside A, graveobioside B. ³³	Treat hypertension, hypercholesterolemia.
	N.A.	Limonene, coumarins, apiin, oleic, linoleic, palmitic, paliloleic, petroselinic, petroselaidic, stearic, myristic, and myristoleic acids, bergapten. ^{99,102,110}	It is carminative and antirheumatic.
<i>Arctium lappa</i> L.	China	Arctin, arctigenin, matai-resinol, sesquilignins, stereoisomer. ^{1,9}	For dermatitis, tumors, antibacterial, relieve sore throat.
	N.A.	Inulin, mucilage, tannins, resin, arctin, arctic acid, arctiol, dehydrofukinone. ^{99,100}	For rheumatism, gout, and lung disease. It is laxative, diuretic, and perspiration inducer.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Areca catechu</i> L.	China	Arecholine, arecholidine, guvacoline, guvacine. ³³	Treat taeniasis.
	N.A.	Arecoline, arecaine, arecaidine, arecolidine, isoguvacine, guvacine, givacoline, tannins, palmitic acid, stearic acid, myristic acid, lauric acid, margaric acid, nonadecanoid, heneicosanic acid. ¹⁰⁰	A breath sweetening masticatory, treat abdominal tumor, an astringent, stomachic, stimulant, and anthelmintic.
<i>Arisaema consanguineum</i> Mart.	China	Alkaloids, saponin, benzoic acid. ^{33,49} This herb is highly toxic.	Treat tetanus, spasms, epilepsy, neuralgia. Sedative, anticonvulsive, an expectorant.
	N.A.	Triterpenoid saponins, benzoic acid. ¹⁰⁰	Treat chest problems. Externally, fresh rhizome for skin ulcers.
<i>Artemisia annua</i> L.	China	Dihydroartemisinin, artesunate, artemisinin, chloroquine. ³³ This herb is mildly toxic.	A schizonticidal agent, antimalarial.
	N.A.	Abrotamine, artemisinin, vitamin A. ⁹⁹	Treat fever, headaches, dizziness, and tight-chested sensation.
<i>Artemisia vulgarts</i> L.	China	Terpinenol-4, β -caryophyllene, artemisia alcohol, linalool, cineol, camphore, borneol, eucalyptol. ³³	Reduce or stop menstrual bleeding. Antiasthmatic, antitussive. Treat chronic bronchitis, oral infection, and hypersensitivity.
	N.A.	Cineole, thujone, ascorbic acid, thiamine, inulin, resin, tannin. ^{100,102}	Improve appetite, digestive function, and absorption of nutrients. Antiseptic, a uterine stimulant.

<i>Asarum canadense</i> L.	China	Essential oils including ucarvone, safrole, beta-pinene, asoryl-ketone, asariline. ³³	Analgesic, sedative, antipyretic, anti-inflammatory
	N.A.	Pinenes, delta-linalool, borneol, terpineol, arislolochic acid. ¹⁰⁷	Treat asthma, sore throats, stomach cramps, recurrence of herpes lesions.
<i>Asparagus officinalis</i> L.	China	Glycolic acid, asparagome, essential oils, methanethiol. ⁵⁰	Diuretic, laxative, treat cancer, neuritis, rheumatism, for parasitic diseases.
	N.A.	Asparagositides, asparagine, flavonoids. ⁹⁹	Diuretic, for rheumatic conditions, sedative.
<i>Aster tataricus</i> L.	China	Saponins, shionon, quercetin, arabinose. ⁴⁹	Antitussive, expectorant.
	N.A.	Coumarins, polyacetylenes, terpenoids, flavonoids, phenylpropanoids, saponins. ¹⁸⁵	A stimulant, expectorant herb for the bronchial system. Treat tuberculosis.
<i>Astragalus membranaceus</i> (Fisch.) Bunge.	China	Gamma-aminobutyric acid, astragalin, canavanine, coumarin, flavonoid derivatives, saponins, polysaccharide, cycloastrangenol, betaine, rhamnositrin, saponin, astragalosides, formononetin, homoserine, isoliquiritigenin, kaempferol, quereetin, cosin. ^{1,33,53,510}	Hypotensive, antirhinoviral, antitumor, antipyretic, diuretic, tonic, an immunomodulating agent.
	N.A.	Asparagine, calycosin, formononetin, astragalosides, kumatakenin, sterols. ^{99,511}	An energy tonic, for excessive sweating, relieves fluid retention, immune stimulant, treat uterine bleeding.
<i>Atractylodes macrocephala</i> Koidz.	China	Atractylone, eudesnol, hinesol. ¹⁹	Diuretic agent, abdominal and chest tightness, anemia, chills, bronchial cough, diarrhea, CNS suppressing activity.
	N.A.	Atractylol, lactones atractylenolide II and III. ⁹⁹	As a tonic, strengthens the spleen, relieves fluid retention, excessive sweating, diarrhea, and vomiting.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Benincase hispida</i> Cogn.	China	Palmitic acid, stearic acid, linoleic acid, thiamine, riboflavin, niacin, ascorbic acid. ⁵⁰	Diuretic, laxative, treat diabetes, dropsy, renitis.
	N.A.	Saponins, guaridine. ⁹⁹	Fruit has anticancerous effect.
<i>Bidens tripartita</i> L.	China	Luteolin, butin, buteine, coumarin, dihydroxycoumarin, scopoletin, umbelliferone. ⁴⁸	Treat chronic dysentery, heart ailments, eczema.
	N.A.	Flavonoids, santhophylls, volatile oil, acetylenes, sterols, and tannins. ⁹⁹	As an astringent, diuretic, to treat bladder and kidney problems. Staunch blood flow, for uterine hemorrhage.
<i>Biota orientalis</i> L.	China	Quercitrin, pinipicrin, thuzone, essential oils. ³³	Hemostatic, shorten blood clotting time. Antitussive.
	N.A.	Alpha-thujone, fenchone, beta-thujone, sabinen, beyerene, bornyl acetate, camphor, borneol, sesquiterpenes, lignans, flavonoids. ^{185,186} This herb is toxic.	Against amoebas, parasites, bacteria, fungi, and viruses.
<i>Blumea balsumifera</i> (L.) DC	China	Essential oils, borneol, camphor, cineole, limonene, palmitic acid, myristic acid, sesquiterpene alcohol, dimethyl ether, cineole, limonene, pyrocatechic tannin. ^{48,53}	Treat itch, sores, wounds. A stomachic, sudorific, tonic, diaphoretic, anticatarrhal.
	N.A.	Camphor, cinnamon. ¹⁰⁵	Externally for joint and muscle pain. Used as an inhalant for bronchial and nasal congestion.

<i>Brassica alba</i> (L.) Rabenh. <i>B. juncea</i> (L.) Czern. et Coss.	China	Sinigrin, myrocin, sinapic acid, sinapine, potassium myronate, mustard oil, allyl isothiocyanate, behenic acid, erucic acid, benzyl isothiocyanate, eicosenic acid. ^{48,50}	Relieve bladder inflammation, hemorrhage, abscesses, lumbago, rheumatism, stomach disorders.
	N.A.	Mustard-oil glycosides. ¹⁴⁷	Antibiotic effects. A pungent, stimulant, improves digestion and circulation.
<i>Bupleurum falcatum</i> L.	China	Triterpenoid saponins, sapogenins, saikosaponins. ^{21,22,33,510}	Relieves tightness, antipyretic, inflammation of inner organs.
	N.A.	Bupleurumol, triterpenoid saponins, flavonoids, saikosides. ⁹⁹	A tonic, anti-inflammatory, antiviral, protects liver.
<i>Calendula officinalis</i> L.	China	Arnidiol, carotin, calenduline, cerylalcohol, flavoxanthin, lycopene, oleanolic acid, inulin, rebixanthin, violaxanthin, tocopherol, salicylic acid. ⁵⁰	Treat bleeding gums, bleeding piles, for amenorrhea, bruises, cholera, cramps, eruption, fevers, flu.
	N.A.	Carotenoids, saponins, flavonoids, phytosterols, mucilage, triterpenes, resin. ^{99,100}	Anti-inflammatory, heal wounds, bed sores, ulcers, and skin rashes.
<i>Camellia sinensis</i> (L.) Kuntze	China	Caffeine, theophylline, tannic acid, theobromine, xanthine. ^{33,47}	Diuretic effect, increases renal blood flow, stimulate central nervous system.
	N.A.	Methylxanthines, caffeine, purine, polyphenols, ascorbic acid, beta-carotene, thiamine, niacin, theophylline. ^{100,111}	Antioxidant with stimulating effects.
<i>Cannabis sativa</i> L.	China	Vitamin B ₁ , vitamin B ₂ , muscarine, choline, trigonelline, l(d)-isoleucine betaine, cannabinol, tetra-hydrocannabinol, cannabidiol. ³³	Purgative, stimulate intestinal mucosa causing an increase in secretions and peristalsis.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Tetrahydro-cannabinols, thiamine protein. Seeds contain choline, inositol, xylose, phytosterols, trigonelline. ^{100,102}	Induce euphoria and exhilaration, sedative, antispasmodic.
<i>Capsella bursa-pastoris</i> (L.) Medicus	China	Bursic acid, alkaloids, vitamin A, choline, citric acid. ³³	Hemostatic, antihypertensive, chyluria, nephritis, edema, hematuria.
	N.A.	Amine choline, acetylcholine, bursine, histamine, flavonoids, polypeptides, tyramine. ^{99,102}	Control internal bleeding, profuse menstruation.
<i>Carthamus tinctorius</i> L.	China	Cartharmin, neocarthamin, safflower yellow, quinochalone, safflomin A. ³³	Promote blood circulation, remove blood stasis, restore normal menstruation.
	N.A.	Carthamone, lignans, vitamin E, polysaccharides. ¹¹²	Reduce fever by inducing perspiration, it has laxative effect.
<i>Carum carvi</i> L.	China	Essential oil, d-carvone, d-limonene, phytosterols. ^{48,50}	Carminative, treat stomach pain.
	N.A.	Carvone, limonene, flavonoids, polysaccharides. ^{99,107,113}	Relieves gas pains, antispasmodic and carminative.
<i>Cassia angustifolia</i> Vahl.	China	Fatty acids, aloe-emodin, rhein chrysarobin, chrysophanic acid, oxymethyl anthraquinone. ^{48,510,511}	Improve night vision, migraines, astringent, purgative.
	N.A.	Anthraquinone, beta-sitosterol, rhein, dianthrone glucosides, sennosides A, B, naphthalene glycosides, aloe-emodin, mucilage. ^{99,100,510,511}	Laxative, stimulant, anticancer, cathartic.

<i>Catharanthus roseus</i> (L.) G. Don	China	Vinblastine, vincristine, carosine, vinrosidine, lenrosine, lenrosivine, rovidine, perivine, perividine, vindoline, pericalline. ³³ This herb is toxic.	Anticancer in chronic lymphocytic leukemia and Hodgkin's disease, in acute lymphocytic leukemia.
	N.A.	Alkaloids, tannins, saponins, pectin, oleoresin, aldehydes, dimeric indole alkaloids, vinblastine, sesquiterpenes. ^{100,114,315}	Treat diabetes, leukemia, reduce blood pressure, Hodgkin's disease, hypotensive, sedative and tranquillizing, anticancer.
<i>Centella asiatica</i> (L.) Urb.	China	Asiaticoside, madecassoside, brahmoside, brahmissoside. ^{33,510}	Antibacterial, lower blood pressure, antipyretic, diuretic, detoxicant
	N.A.	Triterpenoid, saponins, oleic acid, vellarin, hydrocotyline, sitosterol, asiatic, madecassic, madasiatic acids, asiaticoside. ^{99,100,115,116,511}	Treat skin disease, leprosy, antipyretic, detoxicant, diuretic, antirheumatic, mild diuretic, sedative, and peripheral vasodilator.
<i>Chaenomeles speciosa</i> (Sweet) Nakai	China	Vitamin C, malic acid, tartaric acid, citric acid, hydrocyanic acid. ⁴⁹	Treat arthralgia, diarrhea, cholera, gout, arthritis.
	N.A.	Calcium, iron, magnesium, potassium, dodium. ³³⁴	Anti-inflammatory, antispasmodic, a circulatory and digestive stimulant, treat rheumatism, arthritis, cramps.
<i>Chamaenerion angustifolium</i> (L.) Scop.	China	Crataegolic acid, penta-o-galloyl- β -d-glucose, maslinic acid, chanerol, cerylalcohol. ⁴⁸	Regulate menstruation, improve breast milk production. Externally for wounds, stop bleeding.
	N.A.	3-O- β -D-glucuronide, mucilage, tannins, flavones. ^{103,117}	Treat skin irritation and burns, infused flower for gargle for sore throat and laryngitis. It is anti-irritant and used as a mild sun screen, inhibiting microbial growth.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Chelidonium majus</i> L.	China	Chelidonine, protopine, stylopine, allocryptopine, chelerythrine, sparteine, coptisine. ³³	Anodyne, analgesic, diuretic, antitussive, detoxicant. Treat abdominal pain, peptic ulcers, chronic bronchitis, and whooping cough.
	N.A.	Isoquinoline alkaloids, allocryptopine, berberine, chelidonine, sparteine. ⁹⁹	Analgesic, antispasmodic, lower blood pressure. A mild sedative.
<i>Chenopodium ambrosioides</i> L.	China	Volatile oil, ascaridol, geraniol, saponin, l-limonene, p-cymene, d-camphor. ⁶⁰	An anthelmintic to treat ascarids, ancylostomiasis, vermifuge, carminative.
	N.A.	Ascaridole, saponins, myrcene, geraniol. ^{99,100,107}	Anthelmintic.
<i>Chimaphila umbellata</i> (L.) W. Barton	China	Arbutin, ursolic acid, homoarbutin, chimaphilin, isohomoarbutin, hyperin, avicularjn, kaempferol, renifolin, beta-amyrin, ericolin, andromedotoxin, chinic acid. ⁴⁸	Diuretic, relieve stomach, tooth and after-birth pains, antifungal.
	N.A.	Hydroquinones (arbutin), flavonoids, triterpene, methyl salicylate, tannins. ⁹⁹	An astringent, tonic, and diuretic. An infusion for urinary tract problems.
<i>Chrysanthemum cinerriaefolium</i> (Trevir.) Vis.	China	Essential oil, adenine, choline, stachydrine. ⁶⁰	Used as insecticide.
	N.A.	Pyrethrins, cinerins, palmitic, linoleic acid, sesquiterpene lactones. ^{100,107,118}	Externally used as a contact insecticide.
<i>Cimicifuga foetida</i> L.	China	Ferulic acid, isoferulic acid, cimigenol, khellol, aminol, cimifugenol, cimitin. ³³	Induce diaphoresis, promote skin eruption.

	N.A.	Triterpene glycosides, actein, tannins, cimicifugoside, isoflavones, isoferulic acid, salicylic acid, resin. ^{99,100,103,119,120}	Promote menstrual flow, antirheumatic, expectorant, sedative. Treat inflammatory arthritis, high blood pressure, whooping cough, and asthma.
<i>Cimicifuga racemosa</i> (L.) Nutt.	China	Ferulic acid, isoferulic acid, cimigenol, khellol, aminol, cimifugenol, cimitin. ³³	Induce diaphoresis, promote skin eruption.
	N.A.	Triterpene glycosides, isoflavones, isoferulic acid, resin, salicylates, sterols, methylcytisine, cimicifugin, actein. ^{100,120}	Treat rheumatism, neuralgia, diarrhea, bronchitis, measles, whooping cough, tuberculosis, high blood pressure, migraine headaches, arthritis, relieve depression, and suppress hot flashes.
<i>Cinnamomum camphora</i> (L.) J. S. Presl.	China	d-camphor, eucalyptole, cineole, pinene, aromadendrene, cumaldehyde, pinocarveol, 1-acetyl-4-isopropylidenecyclopentene. ^{33,53,510}	Stimulate nervous system, relax gastrointestinal muscle contractions.
	N.A.	Camphor, safrole, eugenol, terpineol, lignans. ^{99,100,511}	Carminative, antispasmodic.
<i>Cinnamomum cassia</i> Presl.	China	Cinnamic aldehyde, cinnamyl acetate, cinnamic acid, eugenol, phellandrene, phenylpropyl alcohol, coumarin, orthomethylcoumaric aldehyde. ^{33,49}	Antibacterial, vasodilatation, aromatic stomachic, astringent, tonic, analgesic, stimulant.
	N.A.	Camphor, camphene, dipentene, limonene, phyllandrene, pinene, cinnamaldehyde. ^{99,100,119}	Carminative, antispasmodic, antiseptic, and antiviral.
<i>Cinnamomum zegganicum</i> Blume	China	Cinnamic aldehyde, p-cymene, hydrocinnamic aldehyde, pinene, benzaldehyde, cuminic aldehyde, nonylic aldehyde, eugenol, caryophyllene, l-phellandrine, methyl-n-amyl ketone, l-linalool. ⁶⁰	Stimulant to digestion, respiration, circulation.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Cinnamaldehyde, eugenol, tannins, coumarins, mucilage.	A stimulant, carminative, antispasmodic, antiseptic, and antiviral. It is a sedative, analgesic, reduces blood pressure and fevers.
<i>Cissampelos pareira</i> L.	China	Cissampareine, hayatine, hayatinine, dl-beheerine, dl-curine, D-guereitol, d-isochondrodendrine, hayatidine, cissamine, menisnine. ³³	A blockade of NMJ depolarization. Used externally on wound surfaces to relieve pain.
	N.A.	Cissampeline. ¹⁰⁵	A potent muscle relaxant.
<i>Citrullus vulgaris</i> Schrad.	China	Cucurbitacins, carpylic acid, capric acid, lauric acid, myristic acid, palmitic acid, stearic acid, oleic acid, linoleic acid, citrulline. ⁵⁰	For alcoholic poisoning, diabetes, nephritis, sore throat, stomatitis, demulcent.
	N.A.	Citrulline, arginine. ⁹⁹	Increase flow of urine and cleanse the kidneys. Treat hepatitis, bronchitis, asthma.
<i>Citrus aurantium</i> (Christm.) Swingle	China	Synephrine, N-methyltyramine, flavones including tangeratin and nobiletin. ³³	Treat indigestion, relieve abdominal distension, ptosis of the anus or uterus.
	N.A.	Coumarins, bioflavonoids, mucilage, vitamins A, B, C, benzoic acid, cinnamic acid, coumarins, carotenoids. ^{99,121}	Antiseptic, antirheumatic, antibacterial, antioxidant.
<i>Clerodendrum trichotomum</i> Thunb.	China	Glycosides clerodendrin, acacetin-7-glucurono-(1,2)-glucuronide, clerodendrin, mesoinositol, clerodolone, apigenin-7-diglucuronide, friedelin, epifriedelin, friedelin. ^{33,48,71}	Treat hypertension, arthritis pain.
	N.A.	Clerodendrin acacetin, mesoinositol. ⁹⁹	Lower blood pressure, ease joint pain, numbness, and paralysis.

<i>Cnidium monnieri</i> (L.) Cusson	China	Archangelicin, columbianetin, O-acetylcolumbianetin, O-isovaleryl columbianetin, cnidiadin, cnidimine, l-pinene, l-camphen. ³³	A trichomonocidal agent, antiascariac, antifungal.
	N.A.	Pinene, camphene, bornyl isovalerate, isoborneol. ⁹⁹	Antifungal, treat vaginitis and vaginal discharge.
<i>Codonopsis pilosula</i> (Franch.) Nannfeldt <i>C. tangshen</i> Oliv.	China	Taraxeryl acetate, friedelin, n-butyl allophanate, inulin, sucrose, amino acids, stigmasterol, spinasterol, methyl palmitate, taraxerol. ⁴⁸	For amnesia, anorexia, asthma, cachexia, cancer, impotence, insomnia, palpitations.
	N.A.	Triterpenoid saponins, sterins, perlolyrin, alkenyl, polysaccharides, alkenyl glycoside, tangshenoside. ^{99,122}	An adaptogen, stimulant and tonic.
<i>Commiphora myrrha</i> Engler	China	From gum resin, essential oils including myrcene, alpha-camphorene, Z-guggulsterol, guggulsterol, makulor, cembrene. ³³	Activate blood flow, relieve pain, promote tissue regeneration.
	N.A.	Gum, acidic polysaccharides, resin. ⁹⁹	A stimulant, antiseptic, astringent, and expectorant. It is anti-inflammatory, antispasmodic, and carminative.
<i>Conyza canadensis</i> (L.) Cronq.	China	Essential oils, mrtaicaria ester, dehydromaticaria ester, linoleyl acetate, limonene, linalool, centaur X, dephenyl methane-2-carboxylic acid, cumulene, O-benzylbezoic acid. ⁴⁸	Relieve swelling, itchiness, treat intestine and liver infection, a detoxicant, externally for skin eczema, wounds, pain caused by arthritis, toothache.
	N.A.	Limonene, terpeneol, linalool, tannins, flavonoids, terpenes. ⁹⁹	For gastrointestinal problems such as diarrhea and dysentery. Treat bleeding hemorrhoids, bladder problems, gonorrhea.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Coptis chinensis</i> Franch. <i>C. teeta</i> Wall	China	Berberine, coptisine, urbenine, worenine, palmaline, jatrorrhizine, columbamine, lumicaerulic acid. ^{33,60} This herb is toxic.	Antiarrhythmic, antibacterial, antiviral, antiprotozoal, anticerebral ischemic.
	N.A.	Isoquiniline, berberine, coptisine, worenine. ⁹⁹	Antibacterial, amebicidal and antidiarrheal.
<i>Coriandrum sativum</i> L.	China	Acetone, borneol, coriandrol, cymene, decanal, decanol, decylic aldehyde, dipentene, geraniol, limonene, linalool, malic acid, nonanal, oxalic acid, phellandrene, tannic acid, terpinene, terpinolene. ⁵⁰	Eruptions of pox and measles.
	N.A.	Linalool, proteins, vitamin C, alpha-pinene, terpinene. ^{99,107}	A digestive tonic, carminative, and sedative.
<i>Cornus officinalis</i> Sieb. et Zucc.	China	Morrisonide, 7-O-methyl-morrisonide, sworoside, loganin, longiceroside, tannic acid, resin, tartaric acid, cornin, gallic acid, malic acid. ^{33,60}	Diuretic, treat dysmenorrhea, excessive menstruation, impotency, backache, dizziness.
	N.A.	Iridoid glycosides, verbenalin, saponins, tannins. ^{100,102,123}	Mild effect on the involuntary nervous system, which governs the digestive system.
<i>Corydalis yanhusuo</i> W. T. Wang ex Z. Y. Su et C. Y. Wu	China	d-corydaline, corydalis, dl-tetrahydropalmatine, crybulbine, alpha-allocriptopine, tetrahydrocoptisine, corydalamine, tetrahydrocolumbamine, protopine, coptisine, dehydrocorydaline, columbamine, dehydrocorydalmine. ³³ Overdosage is toxic.	Analgesic, sedative, hypnotic, synergistic, increase coronary flow.

	N.A.	Corydalis, corydaline, leonticine, tetrahydropalmatine, protopine. ⁹⁹	Analgesic, antispasmodic, sedative.
<i>Crocus sativus</i> L.	China	Crocetin, crocetin geniobiose glucose ester, crocetin di-glucose ester. ³³	Ameliorating effect on ethanol-induced impairment of learning and memory.
	N.A.	Crocine glycosides, beta-carotene, phytoene, phytofluene, pinene, safranal, cineole. ^{100,107}	Saffron stomachic, antispasmodic, emmenagogue properties.
<i>Croton tiglium</i> L.	China	Croton resin, phorbol, crotonic acid, crotin, crotonoside. ³³ This herb is very toxic.	Purgative.
	N.A.	Croton oil. ¹⁰⁵ Oil is carcinogenic, can be fatal.	For constipation, dysentery, biliary colic, intestinal obstructions, food poisoning, malaria, mastitis. Externally for warts, dermatitis, abscesses, boils.
<i>Cryptotaenia canadensis</i> (L.) DC	China	Cryptotaenen, kiganen, kiganol, methyl isobutyl ketone, petroselic acid, isomesityl oxide, <i>trans</i> -beta-ocimene, terpinolene. ^{48,50}	For diarrhea, dysmenorrhea, rheumatism, tubercular glands.
	N.A.	Volatile oils. ¹⁰⁵	A stimulant.
<i>Cryptotaenia japonica</i> Hasskarl	China	Cryptotaenen, kiganen, kiganol, petroselic acid, isomesityl oxide, mesityl oxide, methyl isobutyl ketone, <i>trans</i> -beta-ocimene, terpinolene. ^{48,50}	For diarrhea, dysmenorrhea, rheumatism, tubercular glands.
	N.A.	Apiole, myristicin, pinene, apiin, havonoids, phthalides, coumarins. ^{99,100,107}	Diuretic, stomachic, carminative, irritant, and emmenagogue properties.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Cucumis sativus</i> L.	China	Arginine, caffeic acid, chlorogenic acid, cucurbitacins, fructose, galactose, isoquercitrin, mannose, 2,6-nonadienol, rutin, linoleic acid, oleic acid, palmitic acid, stearic acid. ⁵⁰	Diuretic, purgative, vermifuge, pulp can be used for burns, scalds, and skin ailments.
	N.A.	Palmitic acid, stearic acid, linoleic acid, oleic acid. ^{187,188}	Internally for blemished skin, heat rashes, tapeworm. Externally for sunburn, scalds, sore eyes, and conjunctivitis.
<i>Curcuma aromatica</i> Salisbury	China	Curzerenone, curzenene, furanodiene, furanodienone, zederone, curculone, curcumenol, procurcumenol, curcumadiol, curdione, curcumin, turmerone, zingiberene. ^{33,510} This herb is toxic.	Inhibit mutagenesis and tumor promotion, anti-inflammatory, antitumor, anti-infectious, anti-HIV.
	N.A.	Curcuminoids, essential oils. ⁹⁹	Biliary disorder, anti-inflammatory, sedative.
<i>Curcuma longa</i> L.	China	l-curcamene, sesquiterpene, camphor, camphene, curmarin, curzerenone, curzenene, curcumol, furanodienone, furanodiene, zederone, curcolone, curcumadiol, procurcumenol, curdione, curcumin. ^{33,510}	Anti-inflammatory, antitumor, anti-infectious properties, antioxidative activity, active blood flow, remove blood stasis.
	N.A.	Volatile oil, zingiberen, turmerone, curcumin, resin. ^{99,511}	Stimulate secretion of bile, antibacterial, anti-inflammatory, relieve stomach pain, antioxidant.

<i>Cuscuta chinensis</i> Lam.	China	Cuscutalin, bergenin, cuscutin, amarbelin, cholesterol, campesterol, beta-sitosterol, stigmasterol, beta-amyirin. ⁴⁸	Improve immunity, increase blood sugar metabolism.
	N.A.	Flavonoids, hydroxycinnamic acid, bergegin. ¹⁰²	Remedy for kidney disorder and liver disease, laxative.
<i>Cymbopogon citratus</i> (DC) Stapf. <i>C. nardus</i> Rendle	China	Elemicin, cymbopogonol, citral, dipentene. Methylheptenone, beta-dihydropseudoionone, linalool, methylheptenol, alpha-terpineol, geraniol, nerol, farnesol, caprylic, citrogellol, citronellal, decanal, farnesal, isovaleric, geranic, citronellic. ^{50,60}	Treat blood in the urine, fever, antiseptic, preservative.
	N.A.	Citral, citronellal. ^{100,107,117,124}	Treat digestive problems, relieve cramping pains.
<i>Cyperus rotundus</i> L.	China	Essential oils, alpha-cyperene, beta-cyperene, alpha-cyperol, beta-cyperol, cyperoone, patchoulone, kobusone, capadiene, epoxyquaine, rotundone, rotunol. ³³	Treat dysmenorrhea, menstrual irregularities.
	N.A.	Fixed oil known as tiger nut oil. ⁹⁹	A digestive tonic. Promotes urine production and menstruation.
<i>Cytisus scoparius</i> (L.) Link.	China	Sparteine, sarothamine, genisteine, scoparin. ⁶⁰	As a fomentation to bruises, a remedy for coughs, colds.
	N.A.	Sparteine, scoparoside, flavone. ^{100,125}	Diuretic, cathartic.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Daphne genkwa</i> Sieb. et Zucc.	China	Genkwanin, yuanhuacine, apigenin, hydroxygenkwanin, yuanhuafine, yuanhuadine, 12-benzoxydaphnetoxin, yuanhuatine, genkwadaphnin. ^{33,53} This herb is toxic.	Induce abortion, treat chronic bronchitis, malaria, cutaneous infections.
	N.A.	Daphnetoxin, mezerein, mucilage, tannins. ⁹⁹ This herb is toxic.	An abortifacient, alterative, carcinogenic, diuretic, purgative, stimulant, sudorific.
<i>Datura innoxia</i> Mill. <i>D. metel</i> L. <i>D. stramonium</i> L.	China	Scopolamine, hyoscyamine, daturadiol, daturodone. ³³ This herb is mildly toxic.	A spasmolytic, analgesic, antiasthmatic, antirheumatic agent. A general anesthetic for major operations.
	N.A.	Tropane alkaloids (hyoscyamine, hyoscine), flavonoids, withanolides, coumarins, tannins. ¹⁰⁰	Treat asthma, coughs, fevers, skin conditions.
<i>Daucus carota</i> L.	China	Carotenes, lycopene, phytofluere, umbelliferone, alpha-pinene, camphene, myrcene, alpha-phellandrene, daucol, bisabolene, luteolin-7-glucoside, citral, daucine, pyrrolidine, geraniol, carotol, citronellol, caryophyllene, p-cymene, asarone, daucosterol, petroselinic acid. ⁴⁸	For chronic dysentery, worms, carminative, diuretic, emmenagogue, lower blood sugar, prevent cancer, diabetes, dyspepsia, and gout.
	N.A.	Thiamine, nicotinic acid, phytin, lipids, carotenes, vitamin B complex, vitamin C. ¹⁰⁰	Anthelmintic, diuretic.

<i>Dictamnus albus</i> L.	China	Dictamnine, skimmianine, saponins, preskinnianine, choline, fragarine, aurapten, bergapten, isomaculosindine, limonin, obakinone, fraxinellone, psoralen, trigonelline. ^{50,60}	Antifungal, antipyretic, antiseptic, antitussive, sedative, emmenagogue, tonic.
	N.A.	Estragol, anethole, dictamnin. ⁹⁹ This herb is toxic.	Stimulates the muscles of the uterus, antispasmodic.
<i>Digitalia purpurea</i> L.	China	Digitoxigenin, gitoxigenin, digitonin, gitaloxigenin, digitoxin, gitoxin, gitanin, gitaloxin, digicoside, strospeptide, digipurin, digicirin, digifolein, purpureal glycosides. ⁶⁰	For gonorrhea, sclerosis of the breast.
	N.A.	Purpurea-glycosides A and B, digoxin, digitoxin, caffeic acid, lanatoside, choline, saponins, chlorogenic acid. ¹⁰⁰	Improving blood circulation to the kidneys, it has cardiologic effect.
<i>Dioscorea batatus</i> Decaisue	China	Allantoin, arginine, d-abscisin, mannan, phytic acid, diosgenin, protein. ⁴⁸	Sore throat, swellings, food poisoning, goiter, hernia, purulent inflammations.
	N.A.	Steroidal saponins. ¹²⁶	Strengthens a weak digestion, improves appetite, it has hormonal effect. It counters excessive sweating, frequent urination, and chronic thirst.
<i>Dioscorea opposita</i> Thunb.	China	Allantoin, arginine, choline, glutamine, leucine, tyrosine, diosgenin, sinodiosgenin. ⁵⁰	Leaf juice for snakebite, root for asthma, cachexia, cough, debility, diarrhea, neurasthenia, polyuria, tuber is anthelmintic.
	N.A.	Steroidal saponins, albuminoides, diosgenin, progesteron, sapogenin. ¹²⁶	Hormonal effect, treat vaginal discharge, diuretic and anti-inflammatory properties.
<i>Dodonaea viscosa</i> (L.) Jacquin	China	Alkaloid, glucoside, tannin, resins. ⁶⁰	Remedy for fever, astringent to treat eczema.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Tannin. ¹⁰⁵	Internally for fever, externally for pain relief of toothache, sore throat, wounds and stings.
<i>Drosera rotundifolia</i> L.	China	Citric acid, malic acid. ⁵⁷	Treat dysentery, scrofula, and malaria.
	N.A.	Naphthaquinones, enzymes, flavonoids, volatile oil. ⁹⁹	Antimicrobial, antispasmodic, Relaxing the muscles of the respiratory tract.
<i>Dryobalanops aromatica</i> Gaertn.	China	Borneol, camphene, terpineol, sesquiterpene. ⁶⁰ This herb is toxic.	A tonic and aphrodisiac, cataracts, and reduce swelling. Externally for mucous membrane of the nose, eye, throat and on piles.
	N.A.	Camphor oil, d-borneol. ¹⁰⁵	Internally for fainting, convulsions associated with high fever, cholera, pneumonia. Externally for rheumatism, ringworm, abscesses, boils, cold sores, mouth ulcers.
<i>Dryopteris filix-mas</i> (L.) Schott.	China	Dryocrassin, filicic acids, paraaspidin, deaspidin, albaspidin, oleoresin, filmarone, filicin, flavaspidic acids, filicin, resin albaspidin, diploptene. ^{50,53,60}	Anthelmintic to treat tapeworm, hemorrhage, hookworm, influenza. Externally to treat leucoderma.
	N.A.	Oleo-resin, triterpenes, alkanes, volatile oil, resins. ⁹⁹ This herb is toxic.	Treat tapeworms.
<i>Eclipta alba</i> Hassk. <i>E. prostrata</i> (L.) L.	China	Alkaloids, nicotine, ecliptine. ⁶⁰	Leaves heated or crushed in oil are applied to keep the hair black and to encourage its growth. Astringent, hemostatic, tonic.
	N.A.	Saponins, alpha-terthienylmethanol, ecliptine. ⁹⁹	Prevent premature graying of the hair, staunch bleeding especially from uterus.

<i>Elettaria cardamomum</i> Maton.	China	Phytosterol, palmitic acid, oleic acid, linoleic acid, p-cymene, camphene, d-limonene, myrcene, alpha-phellandrene, pinene, sabinene, terpinene, thujene, cineole, camphorm citral, linalol, citronellal, dl-borneol, citronellol, geraniol, terpineol, sabinene. ⁵⁰	Carminative, emmenagogue, stimulant, stomachic, tonic. Treat ague, cachexia, dyspepsis, enuresis, gastralgia, nausea, spermatorrhea.
	N.A.	Borneol, camphor, pinene, humulene, caryophyllene, carvone, eucalptole, terpinene, sabinene. ⁹⁹	Eases stomach pain, carminative, antispasmodic and digestive stimulant.
<i>Eleutherococcus senticosus</i> (Rupr. ex Maxim.) Maxim.	China	Eleutherosides, beta-sitosterol glucoside, l-sesamen, syringareinol. ^{7,33}	Central nervous system activating and anti-stress action.
	N.A.	Eleutherosides, lignans, coumarins, phenylproparnoids, isofraxin, pectin, triterpenoid saponins, resins, glycans, polysaccharides. ^{99,100,127,128}	An adaptogen, tonic, stimulant, protects the immune system.
<i>Entada phaseoloides</i> (L.) Merrill.	China	Entageric acid. ³³	Antirheumatic, promote collateral flow, relieve blood stasis.
	N.A.	Saponins. ⁹⁹	Treat female sterility, indigestion, and as a painkiller.
<i>Ephedra distachya</i> L.	China	l-ephedrine, l-methylephedrine, l-norephedrine, methylephedrine, d-pseudoephedrinem, d-N-methylpseudoephedrine. ^{30,31,33} This herb is toxic.	Treat asthma, sympathomimetic action, relieve headache, body ache, and coughing, lower fever by increasing perspiration.
	N.A.	Alkaloids, ephedrine, l-ephedrine, d-pseudoephedrine. ^{106,129,511}	Treat fevers, relieve kidney pain, asthma, nose and lung congestions, hay fever, and as a hypertensive aid.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Ephedra sinica</i> Stapf.	China	l-ephedrine, l-methylephedrine, l-norephedrine, methylephedrine, d-pseudoephedrinem, d-N-methylpseudoephedrine. ^{30,31,33,510}	Treat asthma, sympathomimetic action, relieve headache, body ache, and coughing, lower fever by increasing perspiration.
	N.A.	Protoalkaloids, tannins, saponin, flavone, volatile oil, ephedrine, l-ephedrine, d-pseudoephedrine. ^{99,106,511}	Increase sweating, dilate bronchioles, stimulant, diuretic, and raise blood pressure.
<i>Equisetum arvense</i> L.	China	Equisetonin, equisetin, articulain, isoquereitrin, galuteolin, populnin, kaempferol-3,7-diglucoside, astragalin, palustrine, gossypitrin, herbacetrin, 3-methoxypyridine. ⁴⁸	Antihemorrhagic, anodyne, carminative, diaphoretic, diuretic.
	N.A.	Silicic acid, trace of nicotine, equisitine, silicates. ^{99,100,102}	Treat bleeding wounds, antibiotic, for oral infection, antidiaphoretic.
<i>Equisetum hyemale</i> L.	China	Equisetonin, equisetin, articulain, isoquereitrin, galuteolin, populnin, kaempferol-3,7-diglucoside, astragalin, palustrine, gossypitrin, herbacetrin, 3-methoxypyridine. ⁴⁸	Antihemorrhagic, anodyne, carminative, diaphoretic, diuretic.
	N.A.	Silicic acid, silicates, flavonoids, phenolic acid, nicotine, sterols. ¹⁰⁰	Regeneration of connective tissue, clotting agent, astringent effect on genitourinary system.
<i>Erigeron canadensis</i> L.	China	Essential oils, erigeron, tannic acid, limonene, dipentene, methylacetic acid, terpeneol, lacnophyllum, matricaria, dehydromatricaria, gallic acids, hexahydromatricaria. ⁵⁰	For hemorrhage, diarrhea, dysentery, internal hemorrhage of typhoid fever.

	N.A.	Limonene, terpineol, linalool, tannins, flavonoids, terpenes. ⁹⁹	As astringent, for gastrointestinal problems, bleeding hemorrhoids.
<i>Eriobotrya japonica</i> Linkdl.	China	Levulose, sucrose, malic acid, citric acid, tartaric acid, succinic acid, amygdalin, cryptoxanthin, carotenes, phenyl ethyl alcohol pentosans, essential oils. ⁵⁰	Antitussive, expectorant, treat bronchitis, cough, fever, nausea, externally applied to epistaxis, smallpox, ulcers.
	N.A.	Volatile oil, flavonoids, resin.	Treats tracheitis, bronchitis, and asthma.
<i>Erythroxylum coca</i> Lam.	China	l-cocaine, cinnamylcocaine, alpha-trevilline, beta-trevilline, ecgonine, benzoylecgonine. ³³	For local anesthetic, has vasoconstriction effect.
	N.A.	Cocaine, nicotine, benzoylecgonine, cinnamylcocaine, ecgonine, methyl salicylate. ¹⁰⁰	Anesthetic, aphrodisiac, stimulant.
<i>Eugenia caryophyllata</i> (L.) Thunb.	China	Essential oils, eugenol, humulene, acetylene, chavicol, alpha-caryophylline, beta-caryophylline, ylangene. Flower bud: Rhamnetin, kaempferol, oleanolic acid, eugenitin, isoeugenitin. Bark: ellagic acid, beta-sitosterol, mairin. ³³	For nausea, vomiting, hiccups, stomach chills, impotence, therapeutic, antiherpes simplex virus.
	N.A.	Sesquiterpenes, eugenol, tannins, gum. ^{130,131}	For gastroenteritis, intestinal parasites. Externally for toothache and insect bites.
<i>Euphorbia hirta</i> L.	China	Camphol, leucocyanidol, quercitol, quercitrin, rhamnose, euphorbon, gallic acid, chlorophenolic acid, taraxerol, taraxerone. ⁵⁰	For asthma, bronchitis, externally for athlete's foot.
	N.A.	Flavonoids, terpenoids, alkanes, phenolic acids, shikimic acid, choline. ⁹⁹	For bronchial asthma, mildly sedative, treats intestinal amebiasis.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Euphorbia lathyris</i> L.	China	Euphorbiasteroid, betulin, 7-hydroxylathyrol, lathyrol diacetate benzoate, lathyrol diacetate nicotinate, euphol, euphorbol, euphorbetin, esculetin, daphnetin. ^{33,53}	Diuretic to remove edema, eliminate blood stasis and resolve masses, antitumor.
	N.A.	Fixed oil, resin, euphorbone. ^{99,100} This herb is toxic.	Depilatory, remove corns.
<i>Fagopyrum esculentum</i> Moench	China	Rutin, quercetin, caffeic acid, orientin, homoorientin, vitexin, saponaretin, cyanidin, leucoanthocyanin. Seeds contain amylase, linamarase, maltase, phosphatides, protease, quercitol, rhamnose, urease. ^{48,50}	For colic and diarrhea, stop cold sweats.
	N.A.	Bioflavonoids (rutin). ⁹⁹	Antioxidant, strengthens the inner lining of blood vessels.
<i>Ferula assa-foetida</i> L.	China	Vanillin, asarensinotannol, ferulic acid, farnesiferols. ³³	Anthelmintic, treat ascites, dysentery, malaria.
	N.A.	Disulphides, resin, gum, sesquiterpenoid coumarins, foetidin. ⁹⁹	An expectorant, for digestive problems, bronchitis, bronchial asthma, whooping cough, lower blood pressure and thin the blood.
<i>Ficus carica</i> L.	China	Bergaptin, cerotinic acid, ficusin, glutamine, papain, pepsin, psoralen, guaiaxulene, amyrrin, lupeol, octacosane, guaiaicol, quercitin, rhamnose, rutin, sitosterol, tyrosine, urease. ^{50,55}	For stomachache, externally for swollen piles, corns, warts. Fruit is laxative, digestive.

	N.A.	Glucose, flavonoids, vitamins, enzymes. ⁹⁹	A gentle laxative effect, treats tumors, swellings and gum abscesses.
<i>Foeniculum vulgare</i> Mill.	China	Anethol, d-fenchone, anisaldehyde, methylchavicol. ³³	Restore normal functioning of the stomach.
	N.A.	Anethole, fenchone. ^{100,107}	Antispasmodic.
<i>Forsythia suspensa</i> (Thunb.) Vahl.	China	Phillyrin, rutin. ⁵⁰	Febrifuge, for cancer, carbuncle, chickenpox, antiphlogistic, diuretic, emmenagogue, laxative, antipyretic.
	N.A.	Forsythin, vitamin P. ¹³²	Antiseptic, remedy for colds, flu, sore throats, and tonsillitis.
<i>Fraxinus ornus</i> L.	China	Fraxin, aesculin. ³³ This herb is toxic.	Antibacterial, analgesic, anti-inflammatory.
	N.A.	Coumarins, flavonoids, tannins, volatile oil. ⁹⁹	A laxative for children and pregnant women.
<i>Fritillaria verticillata</i> Willd.	China	Fritilline, fritillarine, verticine, verticinine, peimine, peiminine, peimisine, peiniphine, peimidine, peimilidine, propeimin, verticine, verticinine. ³³	Cause bronchodilatation and inhibition of mucosal secretions. Antitussive, stimulate uterine and intestinal contractions.
	N.A.	Alkaloids, peimine. ⁹⁹	Affects the parasympathetic nervous system.
<i>Galium verum</i> L.	China	Alisarin, rubrierythrinic acid, purpurin. ⁶⁰	Treat rheumatism, jaundice, menstrual difficulties, epistaxis, hemorrhages.
	N.A.	Asperuloside, flavonoids, alkanes, anthraquinones. ¹⁰⁷	A diuretic, for skin problems.
<i>Gardenia angusta</i> (L.) Merr.	China	Gardenin, alpha-crocetin, chlorogenin, volatile oil, mannitol, glycosides. ⁶⁴	Emetic, stimulant, febrifuge, diuretic, hemostatic, antihemorrhagic, emmenagogue.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Volatile oil, gardenin crocin, geniposide. ⁹⁹	For fever, irritability and restlessness, insomnia, urination, and jaundice. Treat cystitis, headaches, difficulty in breathing.
<i>Gelsemium sempervirens</i> (L.) Ait.	China	Gelsemine, gelsemidine, koumine, sempervirine, kouminine, kouminicine, douninidine. ^{33,46,50} This herb is highly toxic.	For caked breast, perspiring feet, skin eruptions, wounds.
	N.A.	Gelsemine, gelsedine, iridoids, coumarins, tannins. ⁹⁹ This herb is toxic.	A sedative, antispasmodic, treat neuralgia, facial nerve pain. Externally treat intercostal neuralgia.
<i>Gentiana lutea</i> L. <i>G. macrophylla</i> Pall.	China	Gentianine, gentianidine, gentianol. ³³	Treat rheumatism and fever, antipyretic, anti-inflammatory, antihypersensitivity and antihistaminic effects.
	N.A.	Gentianine, gentianindine. ⁹⁹	Stimulate digestion.
<i>Gentiana scabra</i> Bunge.	China	Entiopicrin (or gentiopicroside), saponins, geniposide, gardenoside, gentianine. ^{16,17,33}	For arthritis, cancer, carbuncle, cold, conjunctivitis, diarrhea, gastritis, neuralgia.
	N.A.	Gentianine, gentianindine. ⁹⁹	Stimulate digestion.
<i>Geum aleppicum</i> Jacq.	China	Flavones, fatty acids, eugenol, gein, geoside. ⁴⁸	Treat bleeding, bug bite, convulsive disorder, fevers, irritability, obstinate skin diseases.
	N.A.	Phenolic glycosides, eugenol, tannins, sesquiterpene lactone. ⁹⁹	Treat fever, stomach and intestinal complaints, diarrhea, and reduce bleeding, inflammation, and hemorrhoids.

<i>Ginkgo biloba</i> L.	China	Kaempterol-3-rhamnoglucoside, gibberellin, cytokinin, ginkgolic acid, ginkgol, bilobal, ginnol, ginkgolides, quercetin, quercitrin, ginkgetin, rutin, isoginketine, bilobetin, isorhamnetin, shikimic acid, D-glucaric acid, anacardic acid. ^{33,48,510,511}	Antitussive, antiasthmatic, anodyne, treat coronary artery disease, angina pectoris, hypercholesterolemia, Parkinson's disease.
	N.A.	Ginkgocide A, B, C, J, and M, flavonoids, bilobalide, sciadopitysin, ginkgetin, isoginkgetin, bilobetin, carotenoids, 4'-O-methylpyridoxine. ^{133,134,135,136,137,311,510,511}	Treat dementia and cerebral insufficiency, relieve asthma, treat cerebral disorders.
<i>Glechoma hederacea</i> L.	China	l-pinocamphone, l-menthone, 1,8-cineol, isomenthone, l-pulegone, alpha-pinene, beta-pinene, isopinocamphone, limonene, menthol, alpha-terpineol, linalool, p-cymene. ⁴⁸	Febrifuge, anodyne, treat earache, fever, toothache, diuretic, decoagulant, arthritis.
	N.A.	Glechomine, tannins, flavonoids, resins, saponins, sesquiterpene. ⁹⁹	For mucous (respiratory) problems, glue ear, lung congestion, urine retention.
<i>Glycine max</i> (L.) Merr.	China	Protein, isoflavone derivatives, genistein, daidzein, riboflavin, thiamin, niacin, pantothenic acid, choline. ^{33,67}	Phytoestrogenic, elevate the vasomotor system, prevent cancer, a potent inhibitor of protein tyrosine kinase.
	N.A.	Lecithin, globuline, glycine, mineral, daidzine astrogen, caffeic acid, choline, coumestrol, tocopherol, saponins, phytic acid, isoflavones, protein, fatty acid, vitamins, carbohydrates, and fiber. ^{130,138}	Prevent arteriosclerosis and coronary heart disease, an astringent, treat hypercholesterol, a starting source of stigma sterol.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Glycyrrhiza uralensis</i> Fisch. ex DC	China	Glycyrrhiza, triterpenoid saponin, flavonone glucoside, liquiritin, aglycone, liquiritigenin, chalcone glucose, isoliquiritin, aglycone, isoliquiritigenin. ^{1,33,510,511}	Anti-inflammatory, anticonvulsant, calminative, antidote. Antispasmodic, antiulcer.
	N.A.	Triterpene saponins, chalcones flavonoids, isoflavonoids. ^{99,312,511}	Sweet-tasting tonic, treat sore throats, wheezing, coughs, canker sores, peptic ulcer, and gastritis.
<i>Gnaphalium uliginosum</i> L.	China	Fat, resin, phytosterol, essential oils, carotene, vitamin B ₁ . ^{48,49,50}	Remedy for lung disease, antifabrele, antimalarial, reduce blood pressure and stomach and intestinal ulcers. Externally for wounds.
	N.A.	Volatile oil, tannins. ⁹⁹	An astringent, antiseptic, decongestant.
<i>Gossypium herbaceum</i> L.	China	Gossypol, hemigossypol, 6,6'-dimethoxylgossypol, aflatoxin B (in seed), methoxylhemigosipol, acetovanillone, hirsutrin (in leaf). ³³	Antitussive, treat bronchitis.
	N.A.	Gossypol, flavonoids. ⁹⁹ This herb is toxic.	As a labor-inducing agent, promote abortion or onset of menstruation. Gossypol causes infertility in men.
<i>Hibiscus rosa-sinensis</i> L.	China	Protein, thiamine, riboflavin, niacin, cyandidin-3-sophoroside. ⁵⁰	Used as poultice on cancerous swellings and mumps.
	N.A.	Mucilage, citric, malic, tartaric acids, hibiscus acid, thiamine, gossypetin, anthocyanin, myristic acid, palmitic acid. ^{100,107}	Soothing effect on mucous membranes that line the respiratory and digestive tracts. Seeds used for cramps, flowers as an astringent.

<i>Hibiscus sabdariffa</i> L.	China	Saponin, saponaretin, vitexin. ⁵⁰	Stomachic, diuretic, expectorant, hematochezia, gas, vertigo.
	N.A.	Mucilage, citric, malic, tartaric acids, hibiscus acid, thiamine, gossypetin, anthocyanin, myristic acid, palmitic acid. ^{100,107}	Soothing effect on mucous membranes that line the respiratory and digestive tracts. Seeds used for cramps, flowers as an astrigent.
<i>Hierochloe odorata</i> (L.) Beauv.	China	Coumarin, coumarinic acid- β -glucoside. ⁴⁸	Relieve internal bleeding, kidney infection.
	N.A.	Coumarin, massoilactone, lactone. ¹⁰³	Treat cough, sore throat, venereal infection, bleeding after childbirth, chapped or wind-burned skin, and eye irritations.
<i>Hippophae rhamnoides</i> L.	China	Cryptoxanthin, harman, harmol, hemin, isorhamnetin, lycopene, serotonin, isorhamnetin-3-mono-beta-D-glucoside, fatty acids, flavonoid, essential oils, tannins, quercitin, vitamin C, vitamin E, beta-carotenoid. ⁵⁰	Improve resistance to infection, skin irritation and eruption, treat heart disease, oil for cosmetic use.
	N.A.	Carotenoid, flavonoid, essential oil, fatty acids, tannins, quercitin, provitamin A, vitamins C, B complex, and E. ^{102,139,140,141}	Improve resistance to infection, skin irritation and eruptions. Treat heart conditions, good source of vitamins C and E.
<i>Hordeum vulgare</i> L.	China	Enzymes such as invertase, amylase, proteinase, vitamin B, vitamin C, maltose, dextrose. ³³	Improve digestion of carbohydrates and protein.
	N.A.	Hordenine, gramme. ⁹⁹	For minor infections of diarrhea, treat fever.
<i>Humulus lupulus</i> L.	China	Humulone, resin, lupulone, isohumulone, isovaleric acid. ³³ This herb is toxic.	Inhibit the growth of tubercle bacillus and arrest tuberculosis.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Humulone, lupulone, humulene, alpha, beta-acids, polyphenols, steroids, resins, tannins. ^{103,142,143}	Sedative effect, hypnotic, stomachic, diuretic. Against gram-positive organisms and tuberculosis.
<i>Hyoscyamus niger</i> L.	China	Alkaloid. ⁶⁰ This herb is mildly toxic.	Antispasmodic activity.
	N.A.	Tropane alkaloids, hyoscyamine, hyoscine. ¹⁰⁵ Overdose can be toxic.	For asthma, whooping cough, motion sickness. Externally for neuralgia and dental and rheumatic pain.
<i>Hypericum perforatum</i> L.	China	Quercetin, quercitrin, isoquercitrin. ^{33,53}	Antipyretic, antibacterial, detoxicant effect, treat acute icteric hepatitis, lower blood pressure, dysmenorrhea, gonorrhea, skin ailments.
	N.A.	Hypericin, hyperoside, rutin, quercetin, chlorogenic acid, pseudohypericin, flavonoids. ^{99,100,102}	Antidepressant, anti-inflammatory, diuretic, antiseptic and astringent properties.
<i>Illicium verum</i> Hook f.	China	Anethol, anisaldehyde, safrole, anisic ketone. ³³	Warming the viscera, expelling cold, relieve pain.
	N.A.	Anethole, methyl chavicol, safrole. ¹⁰⁰	Antibacterial, stimulant, diuretic and digestive properties, for rheumatism, back pain, hernias.
<i>Impatiens balsamina</i> L.	China	Gentisic acid, ferulic acid, p-coumaric acid, sinapic acid, caffeic acid, scopoletin, lawsone. ³³	Treat arthritis, relieve pain.

	N.A.	Balsaminones, 2-methoxy-1, 4-naphthoquinone, saponins, quercetin, kaempferol derivatives, balsaminasterol, parinaric acid, hosenkosides. ³⁰²	Remedy for rashes, pain caused by insect bites, anti-inflammation.
<i>Inula britannica</i> L. <i>I. japonica</i> Thunb.	China	Inusterol A, taraxasterol, inusterol B, inulicin, flavone, caffeic acid, chlorogenic acid, isoquercitrin, quercetin. ^{48,50}	Discussant, vulnerary, carminative, deobstruent, diuretic, treat ascites, bronchitis, cancer, chest congestion.
	N.A.	Volatile oil, flavonoids, phenolic acids, triterpenes, taraxasterol. ⁹⁹	An expectorant. For bronchitis, wheezing, chronic coughing, chest complaints.
<i>Isatis tinctoria</i> L.	China	Quercetin, kaempferol, stachyose, manneotetrose, lupeose, cicerose, isatan, indoxyl-5-ketogluconate. ⁵⁰	Antiviral, antibacterial, increase blood flow, improve microcirculation, lower blood pressure.
	N.A.	No information is available in the literature.	For meningitis, encephalitis, mumps, influenza, erysipelas, heat rash, sore throat. ³³⁵
<i>Jatropha gossypifolia</i> L.	China	Phytotoxin, curcumin, curcacin, arachidic, linoleic acid, myristic acid, oleic acid, palmitic acid, stearic acid. ⁵⁰ This herb (seed) is toxic.	Seed oil emetic, laxative, purgative, treat skin ailments.
	N.A.	Jutrophine, emetic, purgative oil, diterpene jatrophone, isovitexin, resins, isophytosterol, tannin, cyanidin, apigenin, histamine. ^{145,146} This herb is toxic.	A folk remedy for cancer. Treat asthma, constipation, diabetes, diarrhea. It is a disinfectant, laxative. Externally applied to piles and burns.
<i>Juglans regia</i> L.	China	Alpha-hydrojuglone-4- β -D-glucoside, jugone, juglanin. ³³	Nourish and invigorate the lungs and kidneys.
	N.A.	Tannin, juglandin, juglone, hydrojuglone. ¹⁴⁷	Astringent, hemostatic, anti-inflammatory, antispasmodic, antiphlogistic, and mild sedative.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Juniperus rigida</i> Sieb. et Zucc.	China	Alpha-pinene, myrcene, carene, limonene, p-cymene, beta-elemene, caryophyllene, humulene, r-cadinene, terpinene, borneol, citronellol, anethole. ⁴⁸	Hemorrhage, treat hemoptysis, inflammation, kidney infection, arthritic joint infection.
	N.A.	Myrcene, sabinene, alpha-pinene, beta-pinene, cineole, tinnins, diterpenes, resin. ⁹⁹ This herb is potentially toxic.	A tonic, diuretic, antiseptic, for cystitis, relieve fluid retention.
<i>Kaempferia galanga</i> L.	China	Borneol, camphor, cineol, ethyl alcohol. ⁴⁹	Stomachic, carminative, stimulant.
	N.A.	n-pentadecane, ethyl cinnamate, ethyl-p-methoxycinnamate, carene, camphene, borneol, p-methoxystyrene. ¹⁰⁰	Carminative, diuretic, expectorant, pectoral, stimulant.
<i>Lawsonia inermis</i> L.	China	Alpha-ionone, beta-ionone, gallic acid, lawsone. ⁵⁰	Antibiotic, antitumor, anthelmintic, astringent, bactericidal, fungicidal, sedative.
	N.A.	Coumarins, naphthaquinones, lawsone, flavonoids, sterols, tannins. ⁹⁹	As a gargle for sore throats, treat diarrhea, dysentery. An astringent, prevent hemorrhaging.
<i>Ledum palustre</i> L.	China	Alpha-pinene, camphene, sabinene, myrcene, alpha-phellandrene, beta-pinene, limonene, quinene, isothujene, ascaridol, arbutin ericolin. ⁴⁸	Treat cough, asthma, lower blood pressure, antifungal.
	N.A.	Coumarins, naphthaquinones, lawsone, flavonoids, sterols, tannins. ¹⁰⁰	A gargle for sore throat, for diarrhea, dysentery. Prevent hemorrhaging, promote menstrual flow.

<i>Lemna minor</i> L.	China	Luteolin-7-beta-D-glucopyranoside. ⁵⁰	For circulation, measles, swollen feet, depurative, diuretic, soporific.
	N.A.	Arginine, lysine, iron manganese. ¹⁰²	For fever, skin disease, rash, and water retention.
<i>Lepidium virginicum</i> L.	China	Isothiocyanates. ⁵⁰	Antibacterial, cardiotonic.
	N.A.	Vitamin C. ⁹⁹	Treat poison ivy symptoms, vitamin C deficiency, diabetes, expel intestinal worms.
<i>Ligustrum lucidum</i> Mill.	China	Nuzhenide, oleanolic acid, ursolic acid. ³³	Increase leukocyte count, a cardiac tonic, diuretic.
	N.A.	Essential oil, phthalides, terpenoids. ¹⁰⁰	Prevent bone marrow loss, treat acquired immune deficiency syndrome, respiratory tract infections, hypertension, Parkinson's disease, and hepatitis.
<i>Linaria vulgaris</i> Miller	China	Peganine, linarin, pectolinarin, neolinarin, flavons, pectolinarigenin, linaracrine, linarezine, phytosterine. ⁴⁸	Diuretic, treat headache, dizziness, heart conditions. Externally treat burns, skin diseases.
	N.A.	Linarin, sterols, sugars, tannins, mucilage. ⁹⁹	Treat jaundice, chronic constipation, skin disease.
<i>Linum usitatissimum</i> L.	China	Fatty acids, geranylgeraniol, cholesterol, campesterol, orientin, stigmasterol, avenasterol, vitexin cycloartenol, eikosanol, leucine, valine, linamarin, lotaustralin. ⁴⁸	For diarrhea, sensitive skin, itchiness, loss of hair.
	N.A.	Linseed oil, linoleic acid, linolenic acid, stearic acid, oleic acid, mucilage, linamarin. ⁹⁹	Relieve constipation, demulcent, laxative. Externally as a poultice for boils, burns.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Lithospermum erythrorhizon</i> Sieb. et Zucc. <i>L. officinale</i> L.	China	Quinonoid, alkannan, acetylshikonin, shikonin, lithospermin, dihydroshikonin, cycloshikonin. ^{1,69}	Ointment to treats wounds and burns, antitumor, antipyretic, regulate blood circulation, diuretic, purgative, remedy for smallpox.
	N.A.	Lithospermic acid. ¹⁰⁰	Used as a form of birth control, prevent gonadotrophin from stimulating ovaries in lab mice.
<i>Lobelia chinensis</i> L.	China	Lobeline, lobelanine, lobelanidine, isolobelamine (lobeline has been approved by the FDA to curb the tobacco habit). ^{33,50,71} This herb may be toxic.	Diuretic, increase respiration via stimulation of carotid chemoreceptors. Treat snake bites, insecticide, reduce swellings, depurative, antirheumatic, antisyphilitic.
	N.A.	Stictic acid, sticinic acid, fatty acids, mucilage, tannins. ⁹⁹	Expectorant, tonic. For congested mucus, increase appetite.
<i>Lonicera japonica</i> Thunb.	China	Luteolin, inositol, lonicerin, loganin, syringin, saponins, tannin, chlorogenic acid, luteolin-7-rhamnoglucoside. ^{33,48,55}	Inhibit tuberculosis bacillus and counter infection.
	N.A.	Volatile oil, tannins, salicylic acid. ^{99,102}	Diuretic, antispasmodic, relieve gout, kidney stones, coughs, as a gargle for sore throats, canker sores.
<i>Lophanthus rugosus</i> Fisch. et May	China	Essential oils. ⁴⁹	Carminative, stomachic.
	N.A.	Volatile oils. ¹⁰⁵	Antibacterial, stimulate the digestive system, relax spasm, lower fever.

<i>Luffa aegyptiaca</i> Mill. <i>L. cylindrica</i> Roem.	China	Xylose, mannosan, galactan, saponins, acetic acid, valeric acid, pinenes, limonene, cineole, menthone, linalool, bourbonene, caryophyllene, menthol, carvone, vitamins A, B, C. ^{49,50}	Hemostatic, analgesic in enterorrhagia, dysentery, metrorrhagia, orchitis, hemorrhoids.
	N.A.	Xylan, xylose, galactan. ⁹⁹	Treat pain in the muscles, joints, chest, and abdomen.
<i>Lycium barbarum</i> L.	China	Betaine, zeaxanthin, physalein, carotene, nicotinic acid, vitamin C. ³³	Increase leukocyte count, increase immunity, stimulate tissue development.
	N.A.	Betaine, beta-sitosterol. Berry has physalin, carotene, vitamins B ₁ , B ₁₂ , C. Root has cinnamic acid, psyllic acid. ⁹⁹	Berry: treat high blood pressure, a tonic to protect liver, menopausal complaints. Root: treat chronic fevers, lower blood pressure, internal hemorrhage, tuberculosis.
<i>Lycium chinense</i> Miller	China	Cinnamic acid, betaine, peptides, acyclic diterpene glycosides, polysaccharide, kukoamines. ³³	Lower blood sugar and blood pressure, antipyretic, stimulate uterine contractions, antibacterial.
	N.A.	Betaine, beta-sitosterol. ⁹⁹	Treat high blood pressure, menopausal complaints.
<i>Lycopersicon esculentum</i> L.	China	Protein, vitamin A, thiamine, nicotinic acid, riboflavin. ⁵⁰	Relieve toothache, insecticide, laxative.
	N.A.	Carotene, thiamine, nicotinic acid, riboflavin, folic acid, pantothenic acid, biotin, glutamic acid, serine, glycine, aminobutyric acid, globulin, amino acids. ¹⁰⁰	An antiseptic, aperient, depurative, digestive, pectoral, a folk remedy for asthma.
<i>Lycopodium annotinum</i> L.	China	Clavatine, lycopodine, complanatine, alpha-obsculine, serratenediol, tohogenol. ⁴⁸	Relieve numb feeling, arthritis pain, sexually transmitted disease.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Lycopodine, polyphenols, flavonoids, triterpenes. ⁹⁹	Diuretic, sedative, antispasmodic. Treat chronic urinary complaints.
<i>Lycopodium clavatum</i> L. <i>L. obscurum</i> L.	China	Lycopodine, lycodoline, clavatine, fawcetine, clavoloninine, fawcetimine, deacetyl fawcetine, clavatoxine, nicotine, vanillic acid, ferulic acid, azelaic acid, alpha-onocerin, lycoclavanol, lycoclavanin, lycopodine. ^{33,48}	Relieve the rigidity of muscles and joints, treat arthritis and dysmenorrhea.
	N.A.	Lycopodine, dihydrolycopodine, resins, myristic acid, polyphenols, flavonoids, triterpenes. ⁹⁹	A diuretic for kidney and bladder complaints.
<i>Lythrum salicaria</i> L.	China	Tannin, salicarin, chlorogenic acid, cyanidin-3-monogalactoside, ellagic acid, malvidin, malvin, orientin, vitexin. ^{50,72}	Astringent, styptic, treat bacillary dysentery.
	N.A.	Tannin, triacylglycerols, salicarin, vitexin. ⁹⁹	Lower serum cholesterol, glucose, and triglyceride levels, and antiatherosclerotic action. Relieve diarrhea, gargle for sore throat, clean wounds.
<i>Magnolia liliflora</i> Desr.	China	Flower: eugenol, safrole, citrol, anethol. Leaf: salicifoline, magnocurarine. ³³ Essential oils, citral, safrole, anethole, estragole, cineol, eugenol. ⁴⁹	Relieve nasal congestion, sinusitis, rhinitis, coryza, headache, vertigo.
	N.A.	Volatile oil, magnocurarine. ⁹⁹	Relieve cramping pain and flatulence, for abdominal distension, indigestion, loss of appetite, vomiting, diarrhea.

<i>Magnolia officinalis</i> Rehd. et Wils.	China	Tannin, salicarin, chlorogenic acid, cyanidin-3-monogalactoside, ellagic acid, malvidin, malvin, orientin, vitexin. ^{50,72}	Astringent, styptic, treat bacillary dysentery.
	N.A.	Volatile oil, magnocurarine. ⁹⁹	Relieve cramping pain and flatulence, for abdominal distension, indigestion, loss of appetite, vomiting, diarrhea.
<i>Manihot esculenta</i> Crantz.	China	Hydrocyanic acid. ⁷⁶ This herb is toxic.	To dress ulcerous sores.
	N.A.	Cyanogenic glycosides. ⁹⁹	Treat scabies, diarrhea, dysentery.
<i>Matricaria chamomilla</i> L.	China	Volatile oil, azulene, isoamyl, isobutyl, angelic acid, tiglic acid, anthelmic acid, tannin, malic acid. ⁷⁷	Carminative, diaphoretic.
	N.A.	Flavonoid, glycosides, tannins, luteolin, n-coumaric acid, herniarin, cynaroside, umbelliferone, alpha-bisabolol, azulene, anthemidin, luteolin, coumarins. ^{99,100,107}	Antispasmodic for relieving cramps, nervous digestive upsets, insomnia, antiallergenic.
<i>Matteuccia struthiopteris</i> (L.) Todaro.	China	Ponasterone A, ecdysterone, pterosterone, filicin. ⁴⁸	Tonic, lower blood pressure.
	N.A.	Palmitic acid, astragalin, caffeic acid, chlorogenic, p-coumaric, oleoresins, p-hydroxybenzoic, vanillic, stigmasterol, protocatechuic, beta-sitosterol, ferulic, campesterol. ¹⁴⁸	Expel parasites, treat inflammation of lymphatic glands.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Medicago sativa</i> L.	China	Lucernol, sativol, coumesterol, formonetin, daidzein, tricin, citrulline, canaline, dicoumarol, methylene-bishydroxy-coumarin, medicagemic acid, ononitol, petunidin, myrcene, malvidin, delphinidin, linalool, limonene. ⁴⁸	Depurative, deobstruent, diuretic, stomachic, treat intestinal and kidney disorders, kidney stone, poor night vision.
	N.A.	Isoflavones, coumarins, alkaloids, vitamins, porphyrins, stachydrine, l-homostarchydrine. ^{100,102}	For menstruation and menopause.
<i>Melaleuca leucadendra</i> L.	China	Cajupputol, terpinol, l-pinene, aldehydes. ¹⁸⁹	Against rheumatism and pain in the joints.
	N.A.	Terpenoids, cineole, beta-pinene, alpha-terpineol. ⁹⁹	Antiseptic, treat cold, sore throats, coughs, chest infections.
<i>Melia azedarach</i> L.	China	Toosendanin, nimbin, kulinone, methylkulonate, melianol, gedunin, melianodiol, melianotriol, melialactone, azadarachtin, nimbolins, fraxinella, palmitic acid, lauric acid, valerianic acid, butyric acid, stearic acid, cycloencalenol. ^{33,49} This herb is toxic.	Treat intestinal parasite, antibacterial, anthelmintic.
	N.A.	Meliacins, triterpenoid bitters, tannins, flavonoids. ¹⁰⁰	For hemorrhoids, malaria, peptic ulcers, intestinal worms. Antifungal, antiviral, anti-inflammatory, antibacterial.

<i>Melilotus alba</i> Medik.	China	Hydroxycinnamic acid, coumarinic acid, 4-hydroxycinnamic acid, coumaric acid, umbelliferone, scopoletin, melilotoside, melilotic acid, beta-D-glucosyloxy, dicoumarol, chlogogenic acid, caffeic acid, melilotic acid. ⁴⁸	Anticoagulant, treat bowel complaints, infantile diarrhea. A bactericide.
	N.A.	Flavonoids, coumarins, resin, tannins, volatile oil, dicoumarol. ¹⁰²	Relieve varicose veins and hemorrhoids, reduce the rash of phlebitis and thrombosis.
<i>Mentha arvensis</i> L. <i>M. haplocalyx</i> Briq.	China	Menthol, menthone, menthyl acetate. ³³	Stimulate gastrointestinal tract motility and central nervous system, dilate peripheral blood vessels. Increase sweat gland secretion.
	N.A.	Menthol, menthone, menthyl acetate, camphene, limonene, terpenoids. ⁹⁹	Treat colds, sore throats, sore mouth.
<i>Menyanthes trifoliata</i> L.	China	Aromadendrine, betulinic acid, cadinene, choline, gentiatibetin, cineole, dihydrofoliamenthin, foliamenthin, gentialutine, loganin, gentianine, gentiatibetine, invertin, gurguncene, meliatin, menthiafolin, menyanthin, secologanin, alpha-spinasterol, stigmast-7-enol, trifolioside. ⁵⁰	Antitumor, increase gastric secretions, as cathartic, cholagogue, narcotic, sedative, tonic, vermifuge.
	N.A.	Iridoid glycosides, flavonol glycosides, coumarins, phenolic acids, sterols, triterpenoids, tannins. ⁹⁹	Stimulate digestive secretions, treat fluid retention, scabies, and fever.
<i>Mimosa pudica</i> L.	China	Minosine. ⁷⁸ This herb is toxic if overdose.	Treat neurosis, trauma wound, and hemoptysis. It has a tranquilizing effect.
	N.A.	Nigerine (N, N-dimethyltryptamine). ¹⁰⁰	An astringent, cure fatigue, fortify the uterus.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Momordica charantia</i> L.	China	Anti-HIV protein MAP 30. ³³	For immune disorders and common infections. Capable of inhibiting infection of HIV-1 in T. lymphocytes and monocytes.
	N.A.	Fixed oil, insulin-like peptide, mormordin, charantin, mormordicine. ⁹⁹	Treat diabetes, ulcers, urinary stones, a stomach tonic, induces menstruation.
<i>Morus alba</i> L.	China	Morin, dihydromorin, maclurin, dihydrokaempterol, mulberrin, 2,4,4',t'-tetrahydroxybenzophenone, mulberrochromene, cyclomulberrochromene. ³³	Antirheumatic, antihypertensive, diuretic, remove obstructions of the intestinal tract.
	N.A.	Flavonoids, anthocyanins, artocapin, vitamins A, B ₁ , B ₂ , and C. ⁹⁹	An expectorant, help coughing up of mucus.
<i>Myristica fragrans</i> Houtt.	China	Lauric acid, myristic acid, stearic acid, hexadecenoic acid, oleic acid, linoleic acid, amyloextrins, pectins, resins, campherene, cymene, dipentene, eugenol, geraniol, isoeugenol, linalool, myristicin, pinene, safrole, terpineol. ⁵⁰ Volatile oil from this herb may be toxic.	For hysteria, hypochondria, agoraphobia, laughter, cramps, crying jags, dysmenorrhea, amnesia.
	N.A.	Safrole, myristicin, lauric acid, oleic acid, stearic acid, hexadecenoic acid, linoleic acid, d-camphene. ^{98,130}	For diarrhea, dysentery, vomiting, abdominal distention, indigestion, and colic.
<i>Narcissus tazetta</i> L.	China	Lycorine, tazettine, narcitine. ^{49,60} Toxic if overdose.	Antiphlogistic, analgesic for boils, abscesses, mastitis.
	N.A.	Acetylated alkaloids, lectins. ^{149,150,151}	

<i>Nicotiana tabacum</i> L.	China	Nicotine, nicotimine, nicotelline. ⁶⁰ This herb is toxic.	Treat soreness in the joints, numbness, hemicrania, poisonous snakebites, insecticide, antidysenteric, emetic.
	N.A.	Alkaloids, nicotine, volatile oil. ⁹⁹ Nicotine is toxic.	A good insecticide. No longer used medicinally.
<i>Oenothera biennis</i> L.	China	6,9,12-octadecatrienoic acid. ⁴⁸	Lower cholesterol, regulate heart beat, treat arthritis.
	N.A.	Linoleic acid, linolenic acid, phenolics, flavonoids, tannins. ^{103,118,152}	Treat asthma, arteriosclerosis, multiple sclerosis, atopic eczema, schizophrenia, diabetic neuropathy, cardiovascular diseases, antitumor.
<i>Oxyria digyna</i> (L.) Hill	China	Protein, fat, mineral elements. ⁴⁸	For hepatitis.
	N.A.	Protein, fat, ash, carbohydrate, retinol, mineral elements. ²¹⁰	Used as nutrient food.
<i>Paeonia albiflora</i> Pall.	China	Benzoic acid, paeoniflorin, oxypaeoniflorin, benzoyl paeoniflorin, albiflorin. ^{14,15}	Carminative, antispasmodic, analgesic, sedative.
	N.A.	Monoterpenoid glycosides, paeoniflorin, albiflorin, benzoic acid, pentagalloyl glucose. ¹⁵³	Antispasmodic, tonic, astringent, analgesic.
<i>Paeonia lactiflora</i> Pall.	China	Benzoic acid, paeoniflorin, oxypaeoniflorin, benzoyl paeoniflorin, albiflorin. ^{14,15,510}	Carminative, antispasmodic, analgesic, sedative.
	N.A.	Monoterpenoid glycosides, benzoic acid, albiflorin, paeonol, astragalol, palmitic acid, gallotannin, pentagalloyl tannin, beta-sitosterol, benzoic acid, myoinositol, pentagalloyl glucoside. ^{99,153,511}	Antispasmodic, tonic, astringent, analgesic, sedative, anti-inflammatory, prophylactic effect on stress ulcer and hypotension.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Paeonia officinalis</i> L.	China	Benzoic acid, paeoniflorin, oxypaeoniflorin, benzoyl paeoniflorin, albiflorin. ^{14,15}	Carminative, antispasmodic, analgesic, sedative.
	N.A.	Glycosides, tannins, anthocyanidin, peregrinine, paeonine. ^{99,147}	Antispasmodic, diuretic, sedative properties.
<i>Paeonia suffruticosa</i> Andr.	China	Paenol, paeonoside, paeonin, pelargonin, paeonolide, astragalin (paeoniflorin contained in <i>P. moutan</i>). ^{1,2,33}	Sedative, antipyretic, analgesic actions.
	N.A.	Monoterpenoid glycosides, benzoic acid. ^{99,153,154}	Antispasmodic, tonic, astringent, analgesic.
<i>Panax ginseng</i> C. A. Meyer	China	Triterpenoid, quinquenosides, ginsenosides, oleanolic acid, panaxynol, beta-elemene, spermine, putrescine, spermidine. ^{26,53,510}	A stimulant, tonic, expectorant.
	N.A.	Ginsenosides, acetylenic compounds, polysaccharides, panaxosides. ^{103,125,140,141,155,156,314,511}	A stimulant, tonic, adaptogen, diuretic, stomachic agent, carminative, aphrodisiac, healing properties, provide energy, retard the aging process.
<i>Panax quinquefolium</i> L.	China	Ginsenosides, phytosterols. ²⁶	Stimulation effects on central nervous system, antifatigue.
	N.A.	Ginsenosides, acetylenic compounds, polysaccharides, panaxosides. ^{193,125,140,141,155,156}	A stimulant, tonic, adaptogen, aphrodisiac, healing properties, provide energy, retard the aging process. American ginseng may lower the blood pressure.

<i>Papaver rhoeas</i> L.	China	Rhoeadine, rhoegenine. ⁷²	For jaundice, as a gargle, or ingested as bechic.
	N.A.	Thebaine, oripavine, morphine, codeine. ^{99,100}	Mild sedative to induce sleep in babies, ease cough, relieve pain, narcotic analgesic, antitussive.
<i>Papaver somniferum</i> L.	China	Berberine, codeine, papaverine, isocorypalmine, laudanine, magnoflorine, meconine, 6-methylcodeine, morphine, narcotine, pseudomorphine, rhoeadine, sanguinarine, beta-sitosterol, stigmaterol, thebaine, zanthaline. ⁵⁰	Antitussive, antispasmodic, analgesic, astringent, narcotic, treat chronic enteritis, diarrhea, enterorrhagia, headache, toothache, asthma.
	N.A.	Morphine, narcotine, codeine, papaverine, meconic acid, albumin, mucilage, sugars, resin, wax. ⁹⁹	Sedate or suppress nervous system activity, pain, and coughs.
<i>Paris quadrifolia</i> L.	China	Alpha-paristypninin, diosgenin glycoside. ⁵⁰	Antispasmodic, anti-inflammatory, febrifuge.
	N.A.	Paradin, paridol, paristypnine, l-asparagine, citric acid, pectin. ¹⁰⁰ Overdose of this herb is toxic.	For bronchitis, cramps, gout, neuralgia, rabies, tumors, ulcers.
<i>Perilla frutescens</i> (L.) Britt.	China	l-perilla, aldehyde, apigenin, luteolin, 3-p-coumarylglycoside-5-glucoside of cyanidin, 7-caffeyl-glucosides of apigenin and luteolin, anthocyanins. ^{33,50}	Antibacterial, antitussive, stomachic, antiseptic.

**Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species:
Major Constituents and Therapeutic Values (continued)**

Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Protein, flavone glycosides, shishonin, anthocyanin, perillanin chloride, aldehyde antioxine, citral, l-limonene, alpha-pinene. ¹⁰⁰ This herb may be toxic.	Antispasmodic, diaphoretic, sedative, treat pulmonary and uterine disorders.
<i>Phaseolus vulgaris</i> L.	China	Alpha-globuline, beta-globulin, fatty acids, vitamins A, B, and B ₂ , robinin, kaempferol-3-robinobiosido-7-rhamnoside. ⁴⁸	Diuretic, for abscesses, beri-beri, dysentery, sores, swelling.
	N.A.	Allantoin, sugars, leucine, tyrosine, arginine, inositol. ⁹⁹	The pods are diuretic, stimulating urine flow, and flushing toxins from the body.
<i>Phellodendron amurense</i> Rupr. <i>P. chinensis</i> Schneid	China	Berberine, palmatine, candicine, phellodendrine, obacunone. ³³	Antibacterial, stimulate the phagocyte activity of leukocytes, against dysentery.
	N.A.	Isoquinoline alkaloids (berberine), sesquiterpene lactones, sterols. ¹⁵⁷	Treat diarrhea, dysentery, jaundice, vaginal infection, skin conditions.
<i>Phragmites communis</i> Trin.	China	Glycosides, protein, asparagin. ⁴⁹	A stomachic, antiemetic, antipyretic. Treat arthritis, jaundice, pulmonary abscess.
	N.A.	Protein, carbohydrate, crude fiber, minerals. ¹⁹⁰	For fevers, vomiting, coughs, urinary tract infections.
<i>Phyllostachys nigra</i> Munro.	China	Benzoic acid, silica, potassium hydroxide, aluminum oxide, iron oxide, calcium.	Antipyretic, hematuria, sedative, antiemetic, antispasmodic in catarrh.
	N.A.	No information is available in the literature.	Diuretic, lower fever, treat lung infections with cough and phlegm.

<i>Physalis alkekengi</i> L.	China	Physanols, physalien, zeaxanthin, glycolic acid, cryptoxanthin, physoxanthin, mutaxanthin, auroxanthin, physalin A, B, and C, luteolin, tigloidine, physalines, hystonin. ^{33,48}	Antibacterial, stimulates myocardial contraction, causes vasoconstriction, uterine contraction.
	N.A.	Physalin, vitamin C, alkaloids, flavonoids, sterols. ⁹⁹	Diuretic, treat kidney and urinary disorder.
<i>Phytolacca acinosa</i> Roxb.	China	Phytolacine, phytolaccatoxin, oxyristic acid, jaligonic acid, saponins. ³³	Antitussive, diuretic, antibacterial, anti-inflammatory.
	N.A.	Triterpenoid saponins, lectins, proteins, resin, mucilage. ⁹⁹ This herb is toxic.	Anti-inflammatory, antiviral, treat rheumatic and arthritic conditions, respiratory tract infections.
<i>Phytolacca americana</i> L.	China	Phytolacine, phytolaccatoxin, oxyristic acid, jaligonic acid, saponins. ³³	Antitussive, diuretic, antibacterial, anti-inflammatory.
	N.A.	Caryophyllen, isobetanine, isoprebetanine. ^{99,100}	Treat catarrh, dyspepsia, granular conjunctivitis, and rheumatism.
<i>Pinus sylvestris</i> L.	China	Essential oil, limonene, pinitol. ³³	Antitussive, antiasthmatic, antibacterial.
	N.A.	Alpha-pinene, beta-pinene, delta-limonene. ^{98,99}	Mild antiseptic effect, essential oil for asthma, respiratory infections, digestive disorder.
<i>Piper cubeba</i> L.	China	Cubebin, dipentene, cadinene, cineol, carene, camphene, pinene, sabinene, azulene, terpineol. ⁴⁹	Urinary antiseptic, stomachic, carminative.
	N.A.	Volatile oil, cubebin, piperidine, resin. ⁹⁹	Antiflatulent, antiseptic, relieve digestive problems.
<i>Piper longum</i> L.	China	Volatile oil, piperine.	Antipyretic, carminative, aromatic stomachic, analgesic in gastralgia, flatulence, headache.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Piperine, volatile oil, protein, l-phyllandrene, caryophyllene. ¹⁰⁰	Stimulant effect on digestive and circulatory system.
<i>Piper nigrum</i> L.	China	Piperine, chavicine, piperamine, piperonal, dihydrocarveol, cryptone, caryophyllene. This herb may cause irritation to the system. ^{33,45}	Anticonvulsive, sedative.
	N.A.	Piperine, volatile oil, protein, l-phyllandrene, caryophyllene. ¹⁰⁰	Stimulant effect on digestive and circulatory system.
<i>Pistacia lentiscus</i> L.	China	Masticinic acid, masticonic acid, masticoresene, fisetin, fustin, gallic acid, quercetin, taxifolin. ^{49,50}	Antitumor, antitussive, analgesic, sedative in gastralgia, cardiodynia, mastitis, peptic ulcer.
	N.A.	Alpha-masticoresin, beta-masticoresin, alpha-pinene, tannins, masticin, mastic acid. ⁹⁹	As an expectorant for bronchial troubles and coughs, treat diarrhea.
<i>Plantago asiatica</i> L.	China	d-xylose, l-arabinose, d-galacturonic acid, l-rhamnose, plantasan, plantenolic acid, plantagin, homoplantagin, aucubin, ursolic acid, hentriacontane. ^{48,510}	Diuretic, expectorant, intestinal infection, diarrhea caused by bacteria.
	N.A.	Mucilage, linoleic, oleic, palmitic acid, fiber. ^{100,124,511}	Demulcent, laxative, antidiarrheal.
<i>Plantago major</i> L.	China	Xylose, galacturonic acid, rhamnose, plantasan, plantenolic acid, plantagin, homoplantagin, aucubin, ursolic acid. ⁴⁸	Diuretic, expectorant, intestinal infection, diarrhea caused by bacteria.
	N.A.	Aucubin, mucilage, carotene, tannin, chlorogenic acid. ^{100,102}	Expectorant, emollient, demulcent, vulneraria, and astringent, soothing effects.

<i>Pogostemon cablin</i> Benth.	China	Essential oils. ⁶⁰	Antiseptic, for abdominal pain, cold, diarrhea.
	N.A.	Sesquiterpenes patchoulol, bulnesene. ⁹⁹	Aphrodisiac, antidepressant, antiseptic.
<i>Polygonatum odoratum</i> (Mill.) Druce	China	Convallarin, convallamarin, mucilage. ⁴⁹	Stimulate the appetite, increase peristalsis, slow the heart and raise the arterial tension, slow and deepen respiration, purgative.
	N.A.	Saponins, flavonoids, vitamin A. ⁹⁹	Prevent excessive bruising and stimulate tissue repair. An astringent, treats tuberculosis.
<i>Polygonum aviculare</i> L. <i>P. viviparum</i> L.	China	Avicularin, caffeic acid, tannin, chlorogenic acid, vitamin E. ^{33,60}	Treat urethritis, lithiasis, and chyluria. Against dysentery and parotitis, an antiarrhythmias agent.
	N.A.	Tannins, flavonoids, polyphenols, silicic acid, mucilage. ^{99,102}	With astringent and diuretic properties. Treat diarrhea, hemorrhoids, expel worms.
<i>Polygonum bistorta</i> L.	China	Iodine, oxalic acids, coumarins, gallic acid, hydroxycinnamic acids, ether oil, carotin, hydroxybenzoic acids, hydrocyanic acids, anthocyanidines, anthraquinones, phytosterins, caffeic acid, monoterpene, sesquiterpene glucoside, avicularin, quercimeritrin, protocathechuic acid. ^{50,221,222,223,224}	Diuretic, laxative, hemostatic, antifebrile.
	N.A.	Chrysophanic acid, anthraquinones, lecithin. ⁹⁹	Mildly sedative, nourishes the blood, a tonic.
<i>Polygonum hydropiper</i> L.	China	Persicarin, rhamnazin, isotadeonal, quercimeritrin, tadeonal. ³³	Improve indigestion, treat dysentery and enteritis.
	N.A.	Chrysophanic acid, anthraquinones, lecithin. ⁹⁹	Mild sedative, nourishes the blood, a tonic.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Polygonum multifolrum</i> Thunb.	China	Chrysophenol, emodin, emodin methyl ester, rhein, glycoside raphantin, lecithin, parietin, chrysophanic acid, anthron. ^{33,46,54}	A laxative, detoxicant for boils. Treat neurosis, neurasthenia, insomnia, hypercholesterolemia.
	N.A.	Tannins, flavonoids, polyphenols, silicic acid, mucilage. ^{99,102}	With astringent and diuretic properties. Treat diarrhea, hemorrhoids, expel worms.
<i>Populus alba</i> L.	China	Salicin, populin, benzoyl salicin, tannin, erisin, salicinase, salicortin, tremulacin, salireposide. ⁵⁰	Depurative, for colic, eczema, herpes, labialis, fever, dysuria, antiseptic, antiperiodic.
	N.A.	Flavonoids, flavones, flavonols, flavanones, coumaric acid, cinnamic acid, terpenoids. ¹⁹⁰	Treat diabetes, high blood pressure, asthma.
<i>Poria cocos</i> (Polyporaceae)	China	Pachymic acid, tumulosic acid, eburicoic acid, pinicolic acid, pachymarose. ³³	A diuretic, cardi tonic, it has tranquilizing effect, lower blood sugar levels, it is antibacterial and anticancer.
	N.A.	Beta-pachyman, beta-pachymanase, pachymic acid. ⁹⁹	For urinary system, stress-related anxiety, tension headaches, palpitation, and difficulty in sleeping.
<i>Portulaca oleracea</i> L.	China	Potassium salts, catecholamines, norepinephrine, dopamine, vitamin A, vitamin B, magnesium. ^{33,49}	Antibacterial, diuretic, causes vasoconstriction, stimulate uterine and intestinal smooth muscle contraction.
	N.A.	Mucilage, calcium. ⁹⁹	Treat urinary and digestive problems. It has mild antibiotic effect.
<i>Poterium officinale</i> Benth.	China	Zi Yu glucoside I, Zi Yu glucoside II, sanguisorbin A, sanguisorbin B, sanguisorbin C. ³³	Astringent effect to stop diarrhea and relieve chronic intestinal infection, duodenal ulcer, and bleeding. Externally for eczema.

	N.A.	Tannins, sanguisorbic acid, dilactone, gum. ⁹⁹	Slow blood flow, treat heavy periods and uterine hemorrhage, externally for hemorrhoids, burns, wounds, and eczema.
<i>Primula vulgaris</i> Huds.	China	Primulagenin A, aegicerin, protoprimulagenin A. ⁴⁸	Relieve cough, throat infection.
	N.A.	Triterpenoid saponins, flavonoids, phenols, tannins, volatile oil.	Internally for bronchitis, respiratory tract infections, insomnia, anxiety, rheumatic disorders.
<i>Prunella vulgaris</i> L.	China	Caffeic acid, d-camphor, cyanidin, delphinidin, d-fenchone, hyperoside, oleanolic acid, rutin, ursolic acid. ⁴⁸	Antibacterial, antipyretic, cardiac tonic, diuretic, anticancer.
	N.A.	Tannins, saponins, aucubin, vitamins B, C, and K, caffeic acid, ursolic acid, betulinic acid, deanolic acid. ^{99,102}	Astringent, anti-inflammatory, hemostatic, gargle for sore throat, clean wounds.
<i>Prunus armeniaca</i> L.	China	Amygdalin, prunasin, fatty acids, mandelonitrile (enzyme amygdalase can hydrolyze amygdalin to produce cyanic acid). ^{33,53}	Stimulate respiratory center reflexively and produce a tranquilizing effect.
	N.A.	Amygdalin, prussic acid, cyanogenic glycoside, lactrile, hydrocyanic acid. ⁹⁹ Kernel is toxic.	Treat coughs, asthma, wheezing, and excessive mucus, constipation. Treat cancer.
<i>Prunus domestica</i> L.	China	Amygdalin, citric acid, fatty acids. ⁵³	Diuretic, laxative.
	N.A.	Cyanogenic glucosides. ³³⁶	For constipation, a laxative.
<i>Prunus mume</i> Siebold & Zucc.	China	Prudomenin, malic acid, succinic acid, citric acid, tartaric acid, amygdalin. ^{33,53}	Treat biliary ascariasis and hookworm.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Laetrile, cyanide, beta-carotene, thiamine, ascorbic acid, malic acid, citric acid, oligopeptides, polysaccharide. ^{158,159}	Internally for chronic coughs, externally for fungal skin infections, warts, improving blood fluidity, has immunochemical characterization.
<i>Prunus persica</i> (L.) Batsch.	China	Malic acid, citric acid, octalactone, leucoanthocyanins, tannins, hexalactone, hectalactone, benzyl alcohol, nonalactone, decalactone, ethanol, hexanol, acetadehyde, benzaldehyde, acetic acid, pentanoic acid, hexanoic acid. ⁵⁰	Astringent, febrifuge, parasiticide, diuretic, sedative, vermifuge.
	N.A.	Essential oils. ¹⁰⁵	For gastritis, coughs, whooping cough, bronchitis.
<i>Psoralea corylifolia</i> L.	China	Psoralen, angelicin, psoralidin, coryfolin, bavachinin, isobavachin, corylifolinin, d-backuchiol. ³³	Coronary vasodilating effect, increase the myocardial contraction, antibacterial, anticancer.
	N.A.	Psoraline, isopsorlin, bavachin. ⁹⁹	Treat impotence, premature ejaculation.
<i>Pueraria lobata</i> (Willd.) Ohwi.	China	Isoflavones, daidzin, diadzin-4, 7-diglucoside, daidzein, puerarin, xylopurarin, robinin, kaempferol-rhamnoside, fatty acids. ^{12,33,48}	Antispasmodic, hypotensive, and stabilizing blood pressure, treat angina pectoris.
	N.A.	Daidzin, diadzein, isoflavonoids, puerarin, sterol. ⁹⁹	For colds, influenza, feverish illness, thirst in diabetes, externally for snakebite.
<i>Pueraria thunbergiana</i> Benth.	China	Glutamic acid, butyric acid, asparagin, adenine. ⁴⁹	Antipyretic, refrigerant.

	N.A.	Isoflavonoids, puerarin, daidzein, sterols. ⁹⁹	For muscle aches, headache, dizziness due to high blood pressure.
<i>Pulsatilla chinensis</i> (Bunge.) Regel	China	Protoanemonin, anemonin, okinalin, okinalein, ranuneulin, saponins. ³³	Antiamoebic, antibacterial, treat amoebic dysentery.
	N.A.	Lactone, protoanemonin, anemonin, pulsatoside, anemonol. ⁹⁹	Antibacterial, as an irritant.
<i>Punica granatum</i> L.	China	Pelletierine, isopelletierine, methyl-pelletierine, methylisopelletierine, pseudopelletierine, tannic acid, granatin. ³³ This herb is toxic.	Treat intestinal parasites, antibacterial.
	N.A.	Pelletierine alkaloids, ellagitannins, triterpenoids. ⁹⁹ This herb is toxic.	For tapeworm infestation.
<i>Pyrethrum cinerariifolium</i> (L.) Trev.	China	Essential oil, adenine, choline, stachydrine. ⁴⁹	Sedative, refrigerant in headache, influenza.
	N.A.	Pyrethrins, cinerins, palmitic, linoleic acid, sesquiterpene lactones. ^{100,107,118}	Externally used as a contact insecticide.
<i>Pyrola rotundifolia</i> L.	China	Arbutin, homoarbutin, isohomoarbutin, chimaphillin, monotropin. ³³	Antibacterial, antiarrhythmic, lower blood pressure, hemostatic effect.
	N.A.	Flavonoid glycosides, chimpahilin, sesquiterpenes, arbutin, ursolic acid. ¹⁸⁶	Anti-inflammatory, relieve pain, improve myocardial circulation.
<i>Raphanus sativus</i> L.	China	Raphanin. ⁵⁰	For asthma, cough, diarrhea, dysentery, eruptive fevers, bactericidal, antitumor.
	N.A.	Glucosinolates, arginine, histidine, vitamins A, B, and C. ¹⁰²	Leaf is diuretic, laxative, root for hemorrhoids.
<i>Rehmannia glutinosa</i> (Gaertn.) Libosch.	China	Catalpol, campesterol, rehmannin, polysaccharide. ^{16,33}	Lower blood sugar, immuno-antitumor activity.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Phytosterols, β -sitosterol, stigmasterol, mannitol, rehmanning. ⁹⁹	Preventing poisoning and liver damage. Treat blood pressure, fever.
<i>Rheum officinale</i> Baill. <i>R. palmatum</i> L. <i>R. tanguticum</i> Maxim.	China	Anthraquinones, chrysophanol, emodin, physcion, aloe-emodin, rhein, chrysophenol, rheum tannic acid, gallic acid, calechin, bianthraquinonyl, sennosides. ^{1,33,510,511} This herb may be toxic.	Potent laxative, antibacterial, anthelmintic, anticancer, stimulate the large intestine and increase the movement of luminal contents toward the anus, resulting in defecation. Antispasmodic, cholaretic, hemostatic, diuretic, lower blood pressure, lower cholesterol level.
	N.A.	Cinnamic acid, gallic acid, emodin, rhein, rhein anthrones, catechin, anthraquinone compounds, tannin, calcium oxalate. ^{99,100,107,510,511}	Treat diarrhea, stimulate appetite, chronic constipation, laxative, cathartic.
<i>Ricinus communis</i> L.	China	Ricinine, ricinolein, olein, stearin, isoricinoleic acid, cytochrome C. ³³	Cathartic.
	N.A.	Ricinoleic acid, ricin, ricinine, lectins. ⁹⁹ The seeds are toxic.	Laxative, prompting a bowel movement.
<i>Rosa acicularis</i> Lindl.	China	Vitamins, gallo catechin, epigallocatechin, epicatechin gallate, catechin, epicatechin, fatty acids. ⁴⁸	Stop vomitting blood, stomachache, relieve pain caused by nervous system, menstruation.
	N.A.	Vitamins, malic acid, citric acid, pectin, geraniol, l-citronellol. ¹⁶⁰	A tonic, astringent, diuretic, laxative.

<i>Rosa rugosa</i> Thunb.	China	Essential oils, l-citronellol, citral, geraniol, nerol, eugenol, cyanin, n-phenylethyl alcohol, citrol, nonyl aldehyde, l-linalool, l-p-menthene, nonacosane, menthene, bensaldehyde, phenylacetic acid, rosenoxide, paeonidin. ^{48,50}	Promote blood circulation, treat abscesses, blood diseases, dyspepsia, hematemesis, hepatitis, stomachache.
	N.A.	Vitamins, malic acid, citric acid, pectin, geraniol, l-citronellol. ¹⁶⁰	A tonic, astringent, diuretic, laxative.
<i>Rubus coreanus</i> Miq.	China	Beta-sitosterol, stigmaterol, campesterol, cholestanol, ursolic acid, flavonoids. ⁴⁸	Diuretic, aphrodisiac, treat liver infection, joint infection caused by arthritis.
	N.A.	Tannins, organic acids, vitamin C. ¹³⁸	An astringent, antiseptic, diuretic.
<i>Rumex acetosella</i> L. <i>R. aquaticus</i> L.	China	Vitexin, quercetin-3-galactoside, violaxanthin, vitamin C, emodin, chrysophanein, chrysophanol, nepodin, hyperin, physcion. ^{48,50}	Homeopathically for cramps, hemorrhage, sore throat, esophagitis, diuretic, treat blood vomiting.
	N.A.	Oxalates, anthraquinone (chrysophanol, emodin, physcion), phenol, physcion, tannic acid. ^{100,102,118}	Antiseptic, laxative, rheumatic pains.
<i>Rumex crispus</i> L.	China	Chrysophanein, nepodin. ⁴⁸	Treat ovarian bleeding, eczema, tuberculosis, sexually transmitted diseases.
	N.A.	Anthraquinones, nepodin, emodin, chrysophanol, tannins, oxalates, volatile oil. ⁹⁹	Mild laxative, stimulates bile flow, as a cleansing.
<i>Salvia coccinea</i> L.	China	Saluianin. ⁵⁶	Stop bleeding, cooling effect, stimulate sweating, relieve swelling.
	N.A.	Thujone. ^{107,161}	Treat fever, an antiseptic, astringent.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Sanguisorba officinalis</i> L.	China	Zi Yu glucoside I, Zi Yu glucoside II, sanguisorbin A, sanguisorbin B, sanguisorbin C. ³³	Astringent effect to stop diarrhea and relieve chronic intestinal infection, duodenal ulcer, and bleeding. Externally for eczema.
	N.A.	Tannins, sanguisorbic acid, dilactone, gum. ⁹⁹	To slow blood flow, treat uterine hemorrhage.
<i>Santalum album</i> L.	China	Alpha-santalol, beta-santalol, alpha-santalene, beta-santalene, santene, alpha-santenone, alpha-santenol, santalone, santalic acid, teresantalic, isovaleraldehyde, teresantalol, tricycloekasantal, santalin, deoxysantalol, sinapyl aldehyde, caniferyl aldehyde, syringic aldehyde. ³³	Treat stomachics.
	N.A.	Dihydro- β -agarofuran, curcumin, sesquiterpene hydrocarbons, dendrolasin, santalols. ^{8,100}	Internally for genitourinary disorder, fever, sunstroke, externally for skin disorder.
<i>Saponaria officinalis</i> L.	China	Saponarin. ⁶⁵ This herb is contraindicated in pregnancy.	For abscesses, furuncles, ulcers, scabies, mastitis, lymphangitis. Root is used to treat syphilis, glandular and chronic skin disease.
	N.A.	Saponins, resin, sapogenin, sterol, trace of volatile oil. ¹⁶²	As an expectorant, bronchitis, coughs, asthma, rheumatic and arthritic pain.
<i>Saussurea lappa</i> Clarke	China	Saussurine, phene, phellandrene. ⁴⁹	As a stomachic.
	N.A.	Terpenes, sesquiterpenes, apotaxene, sausrine, resin. ⁹⁹	Depress the parasympathetic nervous system.
<i>Schisandra chinensis</i> (Turcz.) Baill.	China	Schizandrin, deoxyschizandrin, schizandrol, schizandrer. ^{8,33}	Antitussive, a tonic. A tendency to lower SGPT caused by hepatitis.

	N.A.	Lignans, phytosterols, vitamins C, E. ⁹⁹	Tonic, adaptogenic, protects liver.
<i>Schizonepeta tenuifolia</i> (Benth.) Briquet	China	Essential oils, d-menthone, d-limonene. ³³	Diaphoresis, lower body temperature, anticonvulsive, increase blood coagulation.
	N.A.	Menthone, limonene. ⁹⁹	To alleviate skin boil and itchiness, treat fever and chills.
<i>Scrophularia ningpoensis</i> Hemsl.	China	Scrophularin, iridoid glycosides, 8-(O-methyl-p-coumaroyl)-harpagide, harpagoside, essential oils, flavonoids, p-methoxycinnamic acid. ³³	Lower blood pressure and blood sugar. A health strengthening agent.
	N.A.	Aucubin, harpagoside, acetyl harpagide, flavonoids, phenolic acid. ⁹⁹	Antiarthritic, treat infections and to clear toxicity.
<i>Scutellaria baicalensis</i> Georgi <i>S. macrantha</i> Fisch.	China	Baicalein, baicalin, wogonin, beta-sitosterol, wognoside, 7-methoxy-baicalein, 7-methoxynorwogonin, skullcap flavones. ³³	Antibacterial, antiviral, antipyretic, anti-inflammatory, antitumor.
	N.A.	Scutellarin, baicalin, baicalein, wogonin, benzoic acid, catapol, tannins, beta-sitosterol, camphesterol, stigmasterol. ^{99,102,163}	Sedative and antispasmodic, prevent epileptic seizures, antiallergic.
<i>Senecio vulgaris</i> L.	China	Senecionine, inulin. ⁵⁸	Used in ointment on hemorrhoids and swellings, lower blood pressure, laxative.
	N.A.	Volatile oil, seneciphyline, jacoline, pyrrolizidine, senecionine, tinnins, resin. ¹⁶⁴	As a poultice ointment or location to relieve pain and inflammation.
<i>Sesamum indicum</i> L.	China	Olein acid, linolein acid, palmitin acid, stearin acid, myristin acid, sesamin, sesamol, pentosan, phytin, lecithin, choline, calcium oxalate, chlorogenic acid, vitamin A, vitamin B. ⁴⁹	A nutrient, laxative, hyperchlorhydria, a lenitive in scybalous constipation, as nutrient tonic in degenerative neuritis, neuroparalysis.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Phenol, lignan, oleic acid, linoleic acid, protein, vitamins B, E, folic acid. ^{165,166}	An antioxidant, antitumor, antimitotic, antiviral, prevent breast cancer. Internally for premature hair loss and graying, strengthen bones and teeth.
<i>Silybum marianum</i> (L.) Gaertn.	China	Silybin, silymarin, silydianin, silyckristin, dehydrosilybin, silybinomer. ³³	Maintain normal functioning of the liver, promote the regeneration of injured hepatic cells, increase glycogenesis and nucleic acid metabolism.
	N.A.	Flavonolignans, silibinin, silymarin. ^{167,168,169}	Treat hepatitis, cirrhosis, regeneration of diseased liver, liver poisoning, digestion.
<i>Sinapis alba</i> L.	China	Arachidic acid, erucic acid, lignoceric acid, linoleic acid, myrosinase, phosphatase, sinalbine. ⁵⁰	Carminative, toothache, seal eruptions, and ulcers.
	N.A.	Mustard oil. ¹⁹¹	Stimulant, promote urination. Mustard plasters for rheumatism, arthritis, chest congestion, aching backs, sore muscles.
<i>Smilax china</i> L.	China	Crystalline saponin smilacin, tannin, resin, tigogenin, neotigogenin, laxogenin. ^{48,49}	As alternative, diuretic in syphilis, gout, skin disorders, rheumatism.
	N.A.	Steroidal saponins, phytosterols (beta- sitosterol), starch, resin, sarsapic acid, minerals. ⁹⁹	Anti-inflammatory and cleansing. Relieve skin eczema, psoriasis, itchiness.
<i>Solanum aculeatissimum</i> Jacquin <i>S. melongena</i> L.	China	Solasonine, beta-solamargine, solasurine. ⁵⁵	For cough, asthma, diuretic, pain.

	N.A.	Proteins, carbohydrates, vitamins A, B ₁ , B ₂ , and C. ⁹⁹	Lower blood cholesterol level, regulate high blood pressure.
<i>Solanum nigrum</i> L.	China	Solanigrines, saponines. ³³	Antibacterial, diuretic, treat mastitis, cervicitis, chronic bronchitis, dysentery.
	N.A.	Linoleic acid, palmitic acid, stearic acid, sitosterol, diosgenin, tigonenin, solanine, chaconine, solasodine, solasonine, solamargine. ¹⁴⁵ This herb is toxic.	Remedy for tumors and cancer, diuretic, treat eye diseases, fevers, hydrophobia. It is laxative, emollient, anti-inflammatory.
<i>Solidago canadensis</i> L.	China	Cadinene, quercitrin. ⁵⁷	Antibacterial, treat infection, stop bleeding, throat swelling.
	N.A.	Tannins, saponins, polygalic acid, cariaester, inulin, salicylic acid. ¹⁰⁰	Alleviate intestinal gas, relieve fever.
<i>Solidago virgaurea</i> L.	China	Caffeic acid, chlorogenic acid, cyanidin-3-glucoside, flavonoids, astragalin, cyanidin-3-gentiobioside, kaempferol-rhamno glucoside, hydroxycinnamic acid, quinic acid, polygalacic acid. ^{48,50}	Decoagulant, carminative, for bladder ailments, cholera, diarrhea, dysmenorrhea.
	N.A.	Tannins, saponins, polygalic acid, cariaester, inulin, salicylic acid. ¹⁰⁰	For urinary infections, chronic excess mucus, skin diseases, influenza, whooping cough.
<i>Sophora japonica</i> L.	China	Rutin, sophoradiol, genistein, sophoricoside, sophorabioside, sophoraflavonolside. ³³	Increase capillary resistance and decreasing capillary fragility and permeability.
	N.A.	No information is available in the literature.	For internal hemorrhage, hypertension and poor peripheral circulation. ³⁴⁵
<i>Stellaria media</i> (L.) Cyrillo	China	r-linolenic acid, octadecatetraenoic acid. ⁴⁸	A postpartum depurative, emmenagogue, lactagogue, promote circulation, treat mucus disorder. Externally for rheumatic pains, ulcers, wound.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)			
Scientific Name	Source	Major Constituents	Therapeutic Values*
	N.A.	Triterpenoid saponins, vitamin C, coumarins, flavonoids, linolenic acid, octadecatetraenic acid. ^{99,100}	Treat internal and external inflammations, irritated skin.
<i>Strychnos nux-vomica</i> L.	China	Strychnine. ⁵⁰ This herb may be toxic.	Treat neurasthenia, aphrodisiac, vasomotor stimulation, regulate blood pressure.
	N.A.	Indole alkaloids, strychnine, loganin, chlorogenic acid. ⁹⁹ This herb is toxic.	A stimulant for nervous system, a homeopathic remedy for digestive problems, sensitivity to cold, and irritability.
<i>Syringa suspensa</i> Thunb. <i>S. vulgaris</i> L.	China	Syringin, 3,4-dihydroxyphenethyl alcohol, saponons, phillyrin. ⁴⁹	Antipyretic, antiphlogistic in infectious fevers, suppurative inflammation, phlegmon, variola, erysipelas, measles.
	N.A.	Lilacin, ligustrin, lignans, hydroxyphenylethanol glycosides. ^{102,170}	Tonic, neurotrophic, adaptogenic, immune stimulating, antimicrobial from leaves.
<i>Syzygium aromaticum</i> (L.) Merr. & Perry	China	Phytosterols, campesterol, crataegol acid, sitosterols, stigmasterol, niacin, ascorbic acid. ⁵⁰	Antiemetic, carminative, stimulant, treat diarrhea, halitosis, nasal polyps, uterine fluxes, sterility, toothache.
	N.A.	Sesquiterpenes, volatile oil, eugenol, tannins, gum. ^{130,131,314}	Internally for gastroenteritis and intestinal parasites, externally for toothache and insect bites.
<i>Tagetes erecta</i> L.	China	Alpha-terthienyl, d-limonene, l-linalool, tagetone, n-nonyl aldehyde. ⁵⁰	Treat sores and ulcers, cold, conjunctivitis, cough, mastitis, mumps.
	N.A.	Limonene, linalool. ¹⁷¹	Treat rheumatism.

<i>Tagetes patula</i> L.	China	Tagetone, linalool, limonene, linalylacetate, ocimene, patuletin, patulitrin, cyanidin diglycoside, quercetagetin, quercetagetrin, helenien, polythienyls. ⁵⁰ This herb is toxic.	For coughs and dysentery.
	N.A.	Essential oils, tagetone, limonene, linalool, ocimene, linalyl acetate, thiophenes. ¹⁷¹	Treat rheumatism, externally for boils, carbuncles, earache.
<i>Taraxacum officinale</i> G. H. Weber ex Wigg.	China	Inulin, essential oils, choline, ceryl alcohol, arabinose, vitamins A, B, C. ⁸⁸	Sudorific, stomachic, tonic, a remedy for sores, boils, ulcers, abscesses, snakebites.
	N.A.	Taraxacin, taraxerol, taraxasterol, inulin, gluten, gum, choline, levulin, pulin, tannins, provitamin A, vitamins B, C. ^{103,172,173}	Tonic, diuretic, stimulate appetite, digestion, treat fever, insomnia, jaundice, eczema, rheumatism, and arthritis.
<i>Terminalia chebula</i> Retz.	China	Chebulic acid, fatty oil, tannin, ellagic acid. ⁴⁹	An astringent in diarrhea, enterorrhagia, metrorrhagia, metritis, leukorrhea.
	N.A.	Anthraquinones, tannins, chebulic acid, resin. ⁹⁹	Laxative, astringent, improve bowel regularity.
<i>Thevetia peruviana</i> (Pers.) K. Schum.	China	Thevetin A, B, theveside, peruvosides, vertiaflavone, theviridoside. ³³	Tranquilizing effect, treat congestive heart failure.
	N.A.	Caoutchouc, resin, palmitic acid, stearic acid, arachidic acid. ¹⁰⁰ This herb is very toxic.	Used for skin ailments.
<i>Thlaspi arvense</i> L.	China	Sinigrin, fatty acids, essential oil, myrosin, myrosinase. ⁴⁸	For ophthalmia, lumbago, an antidote, antipyretic, improve circulation, diaphoretic.
	N.A.	Amine choline, acetylcholine, bursine, histamine, flavonoids, polypeptides, tyramine. ^{99,102}	Control internal bleeding, profuse menstruation.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)

Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Thymus vulgaris</i> L.	China	Tymol, terpinen-4-ol, pinenes, camphene, myrcene, alpha-phellandrene, limonene, 1,8-cinole, p-cymene, linalool, linalyl acetate, bornyl acetate, alpha-terpinyl acetate, alpha-terpineol, borneol, citral, geraniol, carvacrol. ⁵⁰	Anthelmintic, antispasmodic, carminative, diaphoretic, sedative. Treat bronchitis, cancer, diarrhea, gastritis, rheumatism, skin ailments.
	N.A.	Thymol, tannins, carvacrol, saponins, apigenin, luteolin. ^{99,100,107}	Antispasmodic, antitussive, relieve coughing.
<i>Tribulus terrestris</i> L.	China	Glycosides tribuloside, astragalin, harmane, harmine. ³³	Anticonvulsive, a spasmolytic agent.
	N.A.	Sitosterol, tannins, saponins, tribulusamide A and B, n-trans-feruloyltyramine, terrestriamide, n-trans-coumaroyltyramine. ¹⁷⁴	Estrogenic properties, antiandrogenic action, reduce benign prostate hyperlasia (BPH).
<i>Trichosanthes kirilowii</i> Maxim.	China	Trichosanthin, polysaccharides, saponin, organic acids, resin, protein (TAP29). ³³ This herb is toxic.	Treat pectoris and acute mastitis. Antitussive, as an expectorant, anti-HIV activity.
	N.A.	Trichosanic acid. ¹⁰⁰	No information is available in the literature.
<i>Trifolium pratense</i> L.	China	Phytoestrogens, genistein, daidzein, formononetin. ^{33,48}	Stimulating effect on female reproductive organs.
	N.A.	Tannins, phenolic glycosides, p-coumaric acid, silicic acid, caffeic acid, salicylic acid. ^{100,102}	Remedy for sore throat, colds, coughs, bronchitis, diarrhea, chronic skin disease.

<i>Trigonella foenum-graecum</i> L.	China	Trigonelline, saponins, flavone derivatives including vitex, saponaretin, isoorientin, vitexin-7-glucoside. ³³	Reduce plasma cholesterol levels, support hepatic and renal functions.
	N.A.	Protein, linoleic, oleic, linolenic and palmitic acids, trigonelline, choline, coumarin, nicotinic acid. ^{100,117,175}	Reduce total cholesterol and triglycerides without affecting the HDL, reduce blood sugar.
<i>Tussilago farfara</i> L.	China	Faradiol, rutin, hyperin, saponins, taraxanthin, tannin, essential oil. ³³	Antitussive, expectorant, antiasthmatic, stimulate the medullary center and slowly raise blood pressure.
	N.A.	Mucilage, sterols, pigments, inulin, gallic, malic, tartaric acids, tannins, pyrrolizidine alkaloids. ^{99,100}	Expectorant, demulcent, astringent, anti-inflammatory.
<i>Typha angustifolia</i> L. <i>T. latifolia</i> L.	China	Isothamnetin, alpha-typhasterol, oligosaccharides. ³³	Treat hypercholesteremia, angina pectoris, exudative eczema, postdelivery bleeding, stop bleeding in hematemesis and hematuria.
	N.A.	Isorhamnetin, pentacosane, phytosterols. ⁹⁹ Do not use during pregnancy.	Treat angina.
<i>Urtica urens</i> L.	China	Chlorogenic acid, alkaloids, 5-hydroxytryptamine, protein, fat, carbohydrate, ash, fabric. ^{48,49}	Diuretic, tonic, stomachache, arthritis.
	N.A.	Stigmast-4-3-one, stigmasterol, beta-sitosterol, polysaccharides, aretylcholine, serotonin, quercitin, histamine, choline, glucoquinone. ^{99,102,176,304}	Treat benign prostatic hyperplasia, hair tonic and growth stimulation, use in antidandruff shampoo.

Table 2 Chinese and North American Medicinal Herbs Belonging to the Same Species: Major Constituents and Therapeutic Values (continued)

Scientific Name	Source	Major Constituents	Therapeutic Values*
<i>Vaccinium vitis-idaea</i> L.	China	6-o-acetyl-arbutin, arbutin, avicularin, 2-o-caffeoylarbutin, d-catechol, l-epicatechol, d-gallocatechol, hyperin, hyperoside, sioquercitrin, salidroside, tannin, ursone. ⁵⁰	For gonorrhea.
	N.A.	Anthocyanosides, hippuric acid, vitamins A and C. ^{103,177,178,179,180}	Treat urinary infection and stones. Juice has antioxidant value.
<i>Verbena officinalis</i> L.	China	Verbenalin, verbenalol, adenosine, tannin, essential oils. ³³	Antiplasmodial, antibacterial, antitoxin, anti-inflammatory.
	N.A.	Vervenin, verbenalin, volatile oil, alkaloids, mucilage, tannins. ⁹⁹	A tonic, mild sedative, stimulates bile secretion.
<i>Viscum album</i> L.	China	Oleanolic acid, beta-amyrin, mesoinositol, flavoyadorinin, homoflavoyadorinin, lupeol, myristic acid, agglutinins, alkaloids, quercitol, querbrachitol, vitamins E and C. ³³	Antihypertensive, prolong the life of patients with late stage of stomach cancer.
	N.A.	Galactoside-specific lectin, lignans, viscotoxin, choline, alkaloids, resin, acetylcholine, protein, flavonoids, caffeic acid, viscin, carotenoids. ^{99,100,181}	Lower blood pressure, stimulate heart action, and treat arteriosclerosis.
<i>Vitis vinifera</i> L.	China	Malic acid, tartaric acid, racemic acid, oxalic acid. ⁵⁰	For abortion, cholera, dropsy, nausea.
	N.A.	Linoleic, oleic, palmitic, and stearic acids, flavonoids, malic acid, anthocyanins, tartaric, tannins, monoterpene glycosides. ^{99,182}	Antioxidant, internally for varicose veins, excessive menstruation, menopausal syndrome, hemorrhage, and hypertension.

<i>Zea mays</i> L.	China	Carbohydrate, beta-carotene, thiamine, riboflavin, niacin, ascorbic acid. ⁵⁰	For dropsy, diabetes mellitus, hypertension, epistaxis, menorrhagia, cancers, tumors, warts.
	N.A.	Saponins, fatty acids, tannins, resin, maysin, essential oil, thiamine, mucilage. ⁹⁹	Treat cystitis, urethritis, prostatitis, urinary stones.
<i>Zingiber officinale</i> Roscoe	China	Essential oils, zingiberol, zingiberene, phellandrene, camphene, citral, linalool, methylheptenone, nonylaldehyde, d-borneol, gingerol. ⁵³	Anti-inflammatory, stimulates gastric secretion.
	N.A.	Volatile oil, gingerol, shogaols, l-zingiberene. ^{99,107,183,184}	Carminative, circulatory stimulant, anti-inflammatory, antiseptic.
<i>Ziziphus jujuba</i> Mill.	China	Saponins, betulinic acid, betulinic acid, betulin, jujuboside A, jujuboside B, sanjoinines, daechu alkaloids. ^{1,33,44,53}	For insomnia, neurasthenia, and irritation.
	N.A.	Saponins, flavonoids, sugars, mucilage, vitamins A, B, and C. ⁹⁹	Improve muscular strength, weight gain, increase stamina.

* This information should not be used for the diagnosis, treatment, or prevention of diseases in humans. The information contained herein is in no way intended to be a guide to medical practice or a recommendation that herbs be used for medicinal purposes. The information is presented here mainly for educational purposes and should not be used to promote the sale of any product or replace the service of a physician.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values			
Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Abutilon theophrasti</i> Malv. <i>A. avicennae</i> Gaertn. Fruct. Sem.	Rutin, pentose, pentosans, uronic acid, methylpentosans, methypentose, oil, protein. ⁴⁸	Treat dysentery, fevers, a diuretic.
N.A.	<i>Abutilon indicum</i> (L.) Sweet	Mucilage, tannins, asparagine. ⁹⁹	For bronchitis, skin conditions such as boils and ulcers, threadworms.
China	<i>Actaea asiatica</i> Hara	<i>trans</i> -Aconitic acid. This herb is toxic. ⁵¹	A prophylactic against pestilence, malaria, evil miasmas.
N.A.	<i>Actaea rubra</i> (Ait.) Willd. <i>A. alba</i> L.	Resin, <i>trans</i> -aconitic acid, protoanemonoid compound. ¹⁰²	Treat headache, insomnia, melancholy, and convulsions.
China	<i>Adenophora coronopifolia</i> Fisch. <i>A. paniculata</i> Nanuf. <i>A. pereskiaefolia</i> (Fisch.) G. Don <i>A. polymorpha</i> Ledeb. <i>A. remotiflora</i> (Sieb. et Zucc.) Miq. <i>A. stenanthina</i> (Ledeb.) Kitag. <i>A. tetraphylla</i> Mak.	Saponins. ³³	Hemolyze blood cells, stimulates myocardial contraction, antibacterial.
	<i>Adenophora triphylla</i> (Thunb.) A. DC <i>A. verticillata</i> Fisch.	Inulin, taraxerone, beta-sitosterol, daucosterol, beta-sitosteryl palmitate, lupenone. ¹⁸¹	Antidotal, aphrodisiac, demulcent, expectorant, restorative, sialogogue, tonic.
N.A.	<i>Adenophora stricta</i> Miq.	No information is available in the literature.	Treat dry coughs, chronic bronchitis, tuberculosis.
China	<i>Adonis chrysocyathus</i> Hook F. & T. Thoms. <i>A. brevistyla</i> Franch.	Cymarol, corchoroside A, convallatoxin, adonilide, isoramanone, pergularin. ³³ This herb is toxic.	Treat heart disease and central nervous system, depression, diuretic.

N.A.	<i>Adonis vernalis</i> L.	Cardiac glycosides, adonitoxin. ⁹⁹	For heart conditions such as irregular beat, low blood pressure.
China	<i>Agastache rugosa</i> (Fisch. & Mey.) O. Kuntze	Essential oils, methylchavicol, anethole, anisaldehyde, d-limonene, hexenol, calamene, beta-pinene, p-methoxycinnamaldehyde, d-pinene, octanol, cymene, linalool, elemene, caryophyllene, farnesene. ⁴⁸	Chest congestion, diarrhea, headache, nausea, antipyretic, carminative, febrifuge, stomachic.
	<i>A. rugosa</i> (Fisch. & Mey.) O. Kuntze f. <i>hypoleuca</i> (Maxim.) Hara		
N.A.	<i>Agastache anethrodora</i> L. <i>A. foeniculum</i> L.	Methylchavicol, anethole, anisaldehyde. ^{99,306}	Relieve abdominal distention, nausea, vomiting.
China	<i>Ailanthus altissima</i> (Mill.) Swingle	Amarolide, ailanthone, afzelin, syringic acid, vanillic acid, beta-sitosterol, azelaic acid, d-mannitol, amarolide, oleorsin, mucilage. ^{33,48}	Antidiarrheal, treat dysentery, duodenal ulcers. Astringent, anthelmintic.
N.A.	<i>Ailanthus glandulosa</i> Desf.	Quassinoids, ailanthone, quassin, alkaloids, flavonols, tannins. ⁹⁹	To counter worms, excessive vaginal discharge, gonorrhea, malaria, asthma, antispasmodic, cardiac depressant.
China	<i>Ajuga bracteosa</i> Wallich <i>A. decumbens</i> Thunb. <i>A. pygmaea</i> A. Gray	Flavon glucoside, luteolin, ecdysones cyasterone, ecdysterone, ajugalactone, ajugasterone, ajugasterone. ^{33,50}	Antitussive, antipyretic, antiphlogistic, antibacterial. Treat bladder ailments, diarrhea, bronchitis.
N.A.	<i>Ajuga reptans</i> L.	Indoid glycosides (harpagide). ⁹⁹	An astringent, mild analgesic, laxative.
China	<i>Akebia quinata</i> (Hoytt.) Decne.	Aristolochic acid, saponin akebin, triterpenoids. ^{25,33}	Diuretic, antibacterial.
N.A.	<i>Akebia trifoliata</i> (Thunb.) G. Koidz.	No information is available in the literature.	Control infection, stimulate the circulatory and urinary systems. Diuretic properties. ³⁴⁵

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Aletris formosuna</i> (Hayata) Sasaki <i>A. spicata</i> Franch.	Stigmasterol, beta-sitosterol, diosgenin. ⁵⁴	Antitussive, vermifugal, for ascariasis, marasmus, cough.
N.A.	<i>Aletris farinosa</i> L.	Steroidal saponins, diosgenin, volatile oil, resin. ⁹⁹	For gynecological problems during menopause. Treat loss of appetite, indigestion, flatulence, and bloating.
China	<i>Alnus japonica</i> (Thunb.) Steudel	Alpha-amyrin, betulinic acid, glutin-5-en-3-ol, heptacosane, lupenone, taraxerol. ^{48,50}	Antitumor.
N.A.	<i>Alnus crispus</i> (Ait.) Pursh <i>A. glutinosa</i> (L.) Gaertn.	Tannins, resins, phlobaphenes, flavone glycoside, alnulin, taraxerol, protoalnulin, beta-sitosterol. ^{100,102}	As an astringent, reduce inflammation and internal hemorrhage.
China	<i>Alpinia japonica</i> Miq.	Essential oils, cineole, alpinone, izalpinin, rhamnocitrin, kumatakinin. ⁵⁶	Caraminative.
	<i>Alpinia globasum</i> Horan. <i>A. katsumadai</i> Hayata <i>A. kumatake</i> Mak.	Kaempferin, galangin, galangol, cineole, citral, carotene, thiamine, riboflavin. ⁵⁰	Caraminative, stomachic, treat malarial disorders, fluxes, and menstruation.
	<i>Alpinia officinarum</i> Hance	Galangol, essential oils, cineol, eugenol, pinene, cadinene, methyl cinnamate, sesquiterpene, dioxylflavonol. ⁴⁹	As stomachic in chronic enteritis, dyspepsia, and gastralgia, carminative, antiperiodic, sialogogue.
	<i>Alpinia oxyphylla</i> Miq.	Cincole, zingiberene, zingiberol. ⁵⁸	Diuretic, tonic, treat vomiting, and digestive discomfort.
	<i>Alpinia speciosa</i> K. Schum.	Zingiberene, zingiberol. ⁵⁴	Stomachic.

N.A.	<i>Alpinia galanga</i> Miq.	Volatile oil, alpha-pinene, cineole, linalool, sesquiterpene lactones, galangol, galangin. ⁹⁹	A stimulant, carminative, prevents vomiting, antifungal.
China	<i>Althaea rosea</i> (L.) Cav.	Althaeine, dioxybenzoic acid. ⁵⁰	As stomachic, regulative, constructive in fevers, dysentery, diuretic.
N.A.	<i>Althaea officinalis</i> L.	Mucilage, asparagine, pectin, flavonoids. ^{99,177}	For antitussive, bronchitis, asthma, stomach disorder.
China	<i>Amaranthus caudatus</i> L.	Betaine. ⁴⁸	A tonic.
	<i>Amaranthus blitum</i> Kom. <i>A. lividus</i> L. <i>A. viridis</i> L.	Vitamins, protein, thiamine, riboflavin, ascorbic acid. ⁵⁰	Treat dysentery and inflammation, vermifuge.
	<i>Amaranthus tricolor</i> L.	Beta-carotene, thiamine, riboflavin, niacin, ascorbic acid. ⁵⁰	Prevent cancer.
N.A.	<i>Amaranthus hypochondriacus</i> L.	Tannins, a red pigment. ⁹⁹	An astringent, reduce blood loss, treat diarrhea.
China	<i>Amomum cardamomum</i> L. <i>A. globosum</i> Lour. <i>A. tsao-ko</i> Roxb. <i>A. villosum</i> L.	d-borneol, borneol acetate, d-camphor, linalool, nerolidol, terpene. ⁵⁰	Treat pyrosis, vomiting, dyspepsia, pulmonary diseases, dyspepsia. Antitoxic, antiemetic, carminative, stomachic.
N.A.	<i>Amomum xanthioides</i> Soland ex. Maton.	No information is available in the literature.	Carminative, diuretic, stimulate appetite, relieve indigestion and control nausea and vomiting. ³⁴⁵
China	<i>Anemone cernua</i> Thunb. <i>A. raddeana</i> Regel <i>A. rivularis</i> Buch-Hamilton ex DC <i>A. vitifolia</i> (Buch-Ham.) Nakai	Raddeanin A, hederasaponin B, raddanoside, ranuneulin, oleanolic acid. ^{33,48}	Antitumor, anti-inflammatory, antirheumatic arthritis.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Anemone hepatica</i> (DC.) Ker-Gawl. <i>A. patens</i> L. <i>A. pulsatilla</i> L.	Lactone protoanemonin (anemonin), triterpenoid saponins, tannins, volatile oil. ⁹⁹	For cramps, menstrual problems, distress, spasmodic pain of the reproductive system.
China	<i>Angelica amurensis</i> Schischk. <i>A. anomala</i> Lallemand. <i>A. dahurica</i> (Fisch.) Benth. et Hook.	Byak-angelicin, byak-angelicol, oxypeucedanin, imperatorin, phellopterin, xanthotoxin, marmesin, scopoletin, marmesin, scopoletin, anomalin, angelomalin, bergapten. ³³	Antipyretic, treat toothache, headache. Externally for mastitis and wound infection.
	<i>Angelica decursiva</i> (Miq.) Franch. et Savat.	Nodakenin, nodakenetin, decursin, decursidin, umbelliferone, andelin, 3'-angeloyloxy-4'-isovaleroyloxy-3', 4'-dihydroxanthyletin, estragol, estragol, umbelliprenin, imperatorin, decuroside, sioimperatorin, spongesterol, hydroxypeucedanin. ⁴⁸	Anodyne, carminative, diuretic, stimulant, suppurative. Treat abscess, boils, catarrh, cold, coryza, dysmenorrhea, epistaxis, fever.
	<i>Angelica grosserrata</i> Maxim. <i>A. pubescens</i> Maxim.	Angelic, linoleic, oleic, palmitic, stearic acids. ⁵⁰	Antispasmodic, diaphoretic, diuretic. Treat apoplexy, swellings, catarrh, dropsy, headache, leprosy, puerperium.
	<i>Angelica sinensis</i> (Oliv.) Diels	Vitamin B ₁₂ , vitamin E, ferulic acid, succinic acid, nicotinic acid, uracil, adenine, butylidenephthalide, ligustilide, folic acid, biotin, polysaccharide. ³³	Treat irregular menstruation, anemia, thrombophlebitis, neuralgia, arthritis, chronic nephritis, constrictive aortitis, skin disease such as eczematous dermatitis.

N.A.	<i>Angelica archangelica</i> L.	Angelicide, brefeldin A, ligustilide, n-butylidenephthalide, phyllandrene, tinnins, valeric acid, ferulic acid, lactones, limonene, coumarin. ^{98,99,100,107,272}	Stimulate blood circulation, regulate menstruation, stimulate appetite, alleviate coughs and pain.
China	<i>Anthriscus aemula</i> (Woron.) Schischk. <i>A. sylvestris</i> (L.) Hoffm.	Anthricin, deoxypodophyllotoxin, isoanthricin, luteolin. ⁵⁰	Antitumor, glandular tumors, corns, warts.
N.A.	<i>Anthriscus cerefolium</i> (L.) Hoffm.	Volatile oil, coumarins, flavonoids. ⁹⁹	To settle digestion, lower blood pressure, a diuretic. Externally, juice for wounds, eczema, and abscesses.
China	<i>Apocynum venetum</i> L.	Cymar, strophanthidin, k-strophanthin- β , isoquercitrin, quercetin. ³³	Increase myocardial contractility, lower blood pressure, increase bronchial secretion, diuretic.
N.A.	<i>Apocynum androsaemifolium</i> L.	Glucoside apocynamarin, a bitter principle cymar, apocynein, apocynin, volatile oils, fixed oils, caoutchouc. ¹⁰⁰	For rheumatism, scrofula and syphilis.
China	<i>Aquilaria agallocha</i> Roxb. <i>A. sinensis</i> Kitam.	Agarospinol, alpha-agarofuran, agarol, beta-agarofuran, benzylacetone, hydrocinnamic acid, hydroagarofuran. ³³	Antiemetic, promote circulation, relieve pain.
N.A.	<i>Aquilaria flavescens</i> S. Wats.	Hydrocyanic acid. ¹¹⁸ This herb is highly toxic.	Externally for skin diseases.
China	<i>Aquilegia buergeriana</i> Sieb. et Zucc. <i>A. parviflora</i> Ledeb.	Benzylacetone, terpene, p-methoxybenzylacetone. ^{48,60}	Treat irregular menstruation, ovary bleeding, shortness of breath, nausea, pain and gas, chills.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Aquilegia vulgaris</i> L.	Delphinidin-3,5-diglucoside, lipase, nitril-glycoside, capronic acid, palmitic acid, oleic acid, linoleic acid. ¹⁰⁰	
China	<i>Aralia chinensis</i> L. <i>A. cordata</i> Thunb. <i>A. elata</i> (Miq.) Seem.	Diterpenoids such as (–) pimaradene, (–) kaurene derivatives, l-pimara-8, 15-dien-19-oic acid, aralosides, araligenin, oleanolic acid, beta-taralin, alpha-taralin. ^{20,48,50}	Carminative, for arthralgia, gastroenteritis, headache, diuretic, antidiabetic, antiseptic.
N.A.	<i>Aralia catechu</i> L. <i>A. nudicaulis</i> L. <i>A. racemosa</i> L.	Arctiin, tannins, diterpene acids, glucoside, volatile oil. ^{99,102}	Treat rheumatism, asthma, coughs.
China	<i>Arenaria juncea</i> Bieb. <i>A. serpyllifolia</i> L.	Saponin. ⁵⁰	Antitussive, detoxicant, diuretic, febrifuge, treat cough, pulmonary tuberculosis, dysentery.
N.A.	<i>Arenaria rubra</i> (Wahlenb.) Sm.	Resin. ³⁴⁶	Relax muscle walls of the urinary tubules and bladder. Treat kidney stones, acute, and chronic cystitis.
China	<i>Aristolochia contorta</i> Bunge. <i>A. kaempferi</i> Willd. <i>A. longa</i> Thunb. <i>A. recurvilabra</i> Hance.	Aristolochic acid A, aristolochic acid D, aristolisin, magnoflorine, oleanolic acid, beta-sitosterol, hederagenin. ⁴⁸ This herb is toxic.	Treat pulmonary disorders, antitussive, an expectorant in asthma and bronchitis.
	<i>Aristolochia debilis</i> Sieb. et. Zucc.	Aristolochic acid, debilic acid, magnoflorine, dibilone, cyclanline, aristolone. ³³	Antihypertensive, lower heart rate and myocardial contractility, vasodilation.

China	<i>Aristolochia manshuriensis</i> Kom.	Aristolochic acid, saponin akebin, triterpenoids. ^{25,33}	Diuretic, antibacterial.
	<i>Aristolochia shimadai</i> Hayata	Aristolochic acid. ⁵⁴	Relieve pain, a diuretic, externally for snakebite.
N.A.	<i>Aristolochia clematitis</i> L. <i>A. serpentaria</i> L.	Aristolochic acids, volatile oil, tannins. ⁹⁹	Treat wounds, sores, snakebite, taken after childbirth to prevent infection, heal ulcers, treat asthma and bronchitis.
China	<i>Armeniaca ansu</i> (Maxim.) Kostina <i>A. mandshurica</i> (Maxim.) Skvortzov. <i>A. sibirica</i> (L.) Lam. <i>A. vulgaris</i> Lam.	Amygdalin, hydrocyanic acid. ^{48,49}	An astringent, stomachic, antipyretic.
N.A.	<i>Prunus americana</i> Marsh.	Amygdalin, cyanogenic glycoside, laetrile, hydrocyanic acid, tannins. ⁹⁹	Treats cancer, coughs, asthma, and wheezing.
China	<i>Artemisia apiacea</i> Hance ex Walpers	Dihydroartemisinin, artesunate, artemisinin, chloroquine. ³³ This herb is mildly toxic.	A schizonticidal agent, antimalarial.
	<i>Artemisia argyi</i> Leveille & Vaniot <i>A. halodendron</i> Turcz. ex Bess. <i>A. igniaria</i> Max. <i>A. indica</i> Willd. <i>A. integrifolia</i> L. <i>A. japonica</i> Thunb. <i>A. keiskeana</i> Miq. <i>A. scoparia</i> Waldest. & Kitaib. <i>A. selengensis</i> Turcz. ex Bess.	Terpinenol-4, β -caryophyllene, artemisia alcohol, linalool, cineol, camphore, borneol, eucalyptol. ³³	Antiasthmatic, antitussive. Treat chronic bronchitis, oral infection, and hypersensitivity.
	<i>Artemisia capillaris</i> Thunb.	Scoparon, capillene, capillin, capillon, capillarin, capillanol. ³³	A choleric, treat jaundice, acute infectious hepatitis, gallstone related illnesses.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Artemisia finita</i> Kitag. <i>A. frigida</i> Willd.	L-beta-santonin, finitin. ⁴⁸	Treat intestinal parasites.
	<i>Artemisia gmelini</i> Weber ex Stechmann	Essential oils, borneol, cineole, camphor, azulene, isovaleric acid, umbelliferone, scopoletin, genkwanin. ⁴⁸	Treat liver diseases, stop bleeding, arthritis, bronchitis.
	<i>Artemisia lactiflora</i> Wallich	Flavonoid glycoside, coumarin, lactiflorenol, spathulenol, s-guaiazulene, beta-guaienen, <i>trans</i> - β -farnesene, <i>trans</i> -caryophyllene, limonene, elemene, copaene, myrcene. ⁵⁷	Diuretic, regulate menstruation, treat headache, high blood pressure.
N.A.	<i>Artemisia absinthium</i> L.	Absinthol, tannins, thujyl alcohol, flavonoids, phenolic acid, lignins. ^{99,102}	Anthelmintic.
	<i>A. dracunculus</i> L.	Estragole, phelandrine, methyl chavicol, iodine, rutin, tannins, flavonoids, coumarins. ⁹⁹	Diuretic, appetite stimulant.
	<i>A. tridentata</i> Nutt.	Furanoid, pentane, volatile oil. ⁹⁹	Aromatic, bug repellent.
China	<i>Aspidium falcatum</i> Sw.	Filicic acid, tannin, essential oil. ⁴⁹ This herb is slightly toxic.	Anthelmintic, hemostatic, antidote.
N.A.	<i>Aspidium filix-mis</i> (L.) Schott.	Oleo-resin, triterpenes, alkanes, volatile oil, resins. ⁹⁹	Treat tapeworms.
China	<i>Aster ageratoides</i> L.	Quercetin, kaempferol. ³³	Antitussive, antiasthmatic, stimulate adrenal cortex.

N.A.	<i>Aster tataricus</i> L.	Monoterpenes, sesquiterpenes, diterpenes, triterpenes, saponins, flavonoids, coumarins. ²⁷¹	Stop bleeding, treat pinkeye (conjunctivitis).
China	<i>Astragalus chinensis</i> L.	Astragalin, canavanine, homoserine. ³³	Sedative, antibacterial, antiviral.
	<i>A. complanatus</i> R. Fr. ex Bunge. <i>A. henryi</i> Oliv. <i>A. hoantchy</i> Franch. <i>A. melilotoides</i> Pallas. <i>A. mongholicus</i> Bunge. <i>A. reflexistipulus</i> Franch. <i>A. sinensis</i> L.	Gama-aminobutyric acid, astragalin, canavanine, coumarin, flavonoid derivatives, saponins, polysaccharide, cycloastrangenol, betaine, rhamnocitrin, saponin, astragalosides, formononetin, homoserine, isoliquiritigenin, kaempferol, quereetin, cosin. ^{1,33,53}	Hypotensive, antirhinoviral, antitumor, antipyretic, diuretic, tonic, an immunomodulating agent.
N.A.	<i>Astragalus americana</i> Bunge.	Asparagine, calcyosm, sterols, formononetin, kumatakenin. ⁹⁹	Improve immune system, lower blood pressure.
China	<i>Atractylodes lancea</i> Bunge. <i>A. chinensis</i> DC <i>A. japonica</i> Koidz. ex Kitam. <i>A. koreana</i> (Nakai) Kitam. <i>A. lancea</i> Bunge. <i>A. ovata</i> DC	Atractylone, eudesnol, hinesol. ¹⁹	Diuretic agent, abdominal and chest tightness, anemia chills, bronchitis cough, diarrhea, CNS suppressing activity.
N.A.	<i>Atractylodes macrocephala</i> Koidz.	Atractylol, lactones, atractylenolide II and III. ⁹⁹	Protects liver, to relieve fluid retention, excessive sweating, diarrhea, vomiting.
China	<i>Avena fatua</i> L.	Amino adipic acid, glucovanillin, trigonellin, leucin, isoleucin, threonin, asparaginic acid, oxylysin, beta-sitosterol, aconitic acid, avenasterol, secalose, erucic acid, xanthophylllepoxyd. ⁴⁸	Stop bleeding, a tonic.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)			
Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Avena sativa</i> L.	Proteins, vitamin B complex, saponin, carotenes. ^{102,138}	Antidepressant, heal skin disorders.
China	<i>Belamcanda paniculata</i> Moench.	Tectoridin. ⁵⁰	Antipyretic, antifungus, analgesic, detoxicant, stomachic. Externally for boils, cancer, contusions, swellings.
N.A.	<i>Belamcanda chinensis</i> (L.) DC	Belamcandaquinones A and B, isoflavones, tectoridin, iridin, iridals, tectorigenin, irigenin, irisfloreutin. ^{318,319,320}	Treat throat disorders, stimulate the mucous membrane of the throat.
China	<i>Berberis amurensis</i> Rupr. <i>B. poiretii</i> Schneid. <i>B. sibirica</i> Pall. <i>B. soulieana</i> C. K. Schneid.	Berberine, berbamine, palamatin, jatrorrhizine, oxycanthine. ³³	Antibacterial, promotes leukocytosis, choleric.
N.A.	<i>Berberis aquifolium</i> L.	Berberine, protoberberine alkaloids, oxyberberine, magnoflorine, columbamine. ^{100,273,274}	For eczema, gall bladder disorder, chronic hepatitis B, gastritis, diarrhea, antipsoriasis.
	<i>Berberis vulgaris</i> L.	Berberine, tannins, resin, berbamine, berberubine. ^{99,100}	Improve liver function, antiseptic and antidiarrhea.
China	<i>Betula mandshurica</i> (Regel) Nakai <i>B. platyphylla</i> Suk.	Betuloside, betulafolienetriol, betulafolienetetraol, betulin. ^{48,50}	Anticancer, mammary carcinoma.
N.A.	<i>Betula lenta</i> L. <i>B. pendula</i> Roth. <i>B. verrucosa</i> J. F. Ehrh.	Saponins, hyperoside, tannins, gallic acid, methyl salicylate, essential oil. ¹⁰²	For headaches, rheumatic pain, anti-inflammatory.

China	<i>Bidens bipinnata</i> L. <i>B. parviflora</i> Willd. <i>B. pilosa</i> L. var. <i>minor</i> (Blume) Sherff.	Flavonoids, essential oils. ⁴⁸	Treat bug bites, diarrhea, snakebite.
N.A.	<i>Bidens tripartita</i> L. <i>B. connata</i> Muhl.	Flavonoids, xanthophylls, volatile oil, acetylenes, sterols, tannins. ⁹⁹	An astringent, diuretic.
China	<i>Bignonia chinensis</i> Lam. <i>B. grandiflora</i> Thunb.	Protein, dextrose, cyanidin-3-rutinoside. ⁴⁸	As emmenagogue. Treat amenorrhea, dysmenorrhea, leucorrhea, menorrhagia, metrorrhagia.
N.A.	<i>Bignonia catalpa</i> (L.) Karst.	Catalpine, oxylenzoic acid, protocatechetic acid. ⁹⁹	Treat asthma, whooping cough, spasmodic coughs.
China	<i>Blumea hieracifolia</i> (D. Don) DC	No information is available in the literature.	Treat pneumonia, water in the lung, diarrhea, snakebite.
	<i>Blumea lacera</i> (Burm. f.) DC	Carotene, coniferyl alcohol, angelic acid, vitamin C, cineole, citral, fenchone, camphor. ^{48,56}	An insectifuge, vermifuge, treat cholera, eczema, fever, itch, scurvy.
	<i>Blumea riparia</i> (Blume) DC var. <i>megacephala</i> Randeria	No information is available in the literature.	Treat headache, relieve colic.
N.A.	<i>Blumea balsumifera</i> (L.) DC	Flavonoids, sesquiterpene lactones, camphor. ^{316,317,345}	Carminative, vermifuge, disphoretic, an expectorant.
China	<i>Buxus harlandii</i> Hance	Cyclovirobuxine D, buxanmine E, cycloprotobuxine C, buxpiine K. ⁵⁸	Improve blood circulation, enhance heart muscle, regulate heartbeat, treat hepatitis, arthritis.
	<i>Buxus microphylla</i> Sieb. et Zucc.	Cyclovivobuxine C and D, buxamine E, cycloprotobuxamine A and C, buxtauine, buxpiine. ⁵⁸	Treat heart conditions, a detoxicant.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)			
Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Buxus sempervirens</i> L.	Steroidal alkaloids, alpha-tocopherol. ^{125,275}	Used for recurrent fevers, rheumatism, intestinal parasites.
China	<i>Caesalpinia decapetula</i> (Roth.) Alston	Volatile oil, bonducin, saponin, glycoside. ⁶⁰	Astringent, anthelmintic, antipyretic, antimalarial.
	<i>Caesalpinis pulcherrima</i> Swartz	Alkaloid, gallic acid, resins, tannins. ⁶⁰ This herb is toxic.	Febrifuge, stomachic, diuretic, astringent, anticholeric.
	<i>Caesalpinis sappan</i> L.	Brasilin, tetraacetylbrasilin, proesapanin A, essential oils, tannic acid, gallic acid, saponin. ^{33,49,50}	Activate blood flow, remove blood stasis, reduce swelling, against human cancer cells.
N.A.	<i>Caesalpinia ascendens</i> L. <i>C. bonducella</i> L. <i>C. sylvatica</i> L.	Fix oil, bonducin, tannins. ⁹⁹	Treat fever, aphrodisiac.
China	<i>Caltha palustris</i> L. var. <i>sibirica</i> Regel	Anemonin, protoanemonin, choline, hellebrin, cevadine, berberine, scopoletin, saponin, umbelliferone, isorhamnetin, xanthophyllepoxyl. ^{48,50}	Antirheumatic, antitumor.
N.A.	<i>Caltha leptosepala</i> DC	No information is available in the literature.	Diaphoretic, emetic, expectorant. Diuretic, laxative, antitumor activity. ³⁴⁷
China	<i>Calystegia hederacea</i> Willich ex Roxb. <i>C. japonica</i> Choisy iu Zoll.	Kaempferol, kaempferol-3-rhamnoglucoside, columbin, palmatine. ^{48,50}	Diuretic, stimulate kidney secretions.
N.A.	<i>Calystegia sepium</i> (L.) R. Br.	Lectin, calystegins. ^{324,325}	Glycosidase inhibitor.

China	<i>Campanula glomerata</i> L. f. <i>canescens</i> (Maxim.) Kitag. <i>C. gilauca</i> Thunb. <i>C. grandiflora</i> Jacq. <i>C. punctata</i> Lam.	Quercetin, isorhamnetin, kaempferol, hyperoside, isoquercetin, trifolin, chlorogenic acid, methyl caffeate, coumaroylquinic acid. ⁴⁸	For throat infection, headache.
N.A.	<i>Campanula rotundifolia</i> L. <i>C. palustris</i> L.	Lutein-7-primveroside, luteolin-7-0-beta-D-glucopyranosil, rhamnetin-3-0-beta-D-galactoside, esculetin, caffeic, n-coumaric, ferulic acids. ³⁰²	For faintness or a weak heart, stop bleeding, reduce swelling. ²⁷⁴
China	<i>Cardamine leucantha</i> (Tausch.) O. E. Schulz.	Erucic acid, linolenic acid, linoleic acid, oleic acid, sinigroside, lecithine, myrosinase. ⁶⁰	Treat abdominal pain, antidiarrhea.
N.A.	<i>Cardamine pratensis</i> L.	Minerals, vitamin C. ²⁷⁴	Stimulate appetite, ease indigestion, cough remedy.
China	<i>Carduus acaulis</i> Thunb. <i>C. crispus</i> L. <i>C. japonicus</i> Franch.	Essential oils, glycoside, bitter principle. ⁴⁹	Hemostatic.
N.A.	<i>Carduus benedita</i> L.	Lignins, sesquiterpene lactones (cnicin), volatile oil, polyacetylenes. ^{98,99}	Stimulate the secretions of the stomach, intestines, gallbladder.
	<i>Carduus marianus</i> L.	Flavonolignans (silymarin), polyacetylenes. ⁹⁹	Protect the liver, stimulate secretion of bile, increase breast-milk production. An antidiarrheal.
China	<i>Cassia alata</i> L.	Fatty acids, aloe-emodin, rhein chrysarobin, chrysophanic acid, oxymethyl anthraquinone. ⁴⁸	Improve night vision, migraines, purgative, astringent.
	<i>Cassia angustifolia</i> Vahl.	Sennosides, aloe-emodin, dianthrone glucoside, rhein monoglucoside, rhein, kaempferin, myricyl alcohol, anthraquinone derivative. ³³	Purgative, laxative, cathartic.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Cassia nomame</i> (Sieb.) Honda <i>C. obtusifolia</i> L.	Anthraquinones such as emodin, chrysophanol, physcion, rhein aurantioobtusin, obtusifolin, chryso-obtusin, naphthopyrones, obtusin, aurantio-obtusin rubrofusarin, nor-rubrofusarin, toralacton. ³³	Purgative, treat ophthalmia, hypercholesterolemia, vaginitis.
	<i>Cassia occidentalis</i> L. <i>C. tora</i> L. <i>C. torosa</i> Cav.	Anthraquinones, torosachrysone, N-methylmorpholine, apigenin, galactomannan, cassiollin, xanthorin, dianthronic heteroside, helminthosporin. ^{4,33}	Mild purgative, lower blood pressure, antibacterial, antiasthmatic, antitoxic.
	<i>Cassia siamea</i> Lamark	Chrysophanic acid, chrysarobin, oxymethylanthraquinone. ⁶⁰	A tonic to relieve stomach pains.
N.A.	<i>Cassia senna</i> L.	Anthraquinone, beta-sitosterol, rhein, dianthrone glucosides, sennosides A, sennosides B, naphthalene glycosides, aloe-emodine, mucilage. ^{99,100}	Laxative, stimulant, cathartic, anticancer, cathartic.
China	<i>Castanea crenata</i> Sieb. et Zucc. <i>C. striatus</i> Thunb.	Quercetin, urea, protein, beta-carotene, riboflavin, thiamine, ascorbic acid, niacin. ^{48,50}	Treat diarrhea, poisoned wounds, lacquer poisoning, astringent.
N.A.	<i>Castanea sativa</i> Mill.	Tannins, plastoquinones, mucilage. ⁹⁹	Treat whooping cough, bronchitis, sore throat.
China	<i>Caulophyllum robustum</i> Maxim.	Magnoflorine, taspine, methylcytisine, alpha-lupanine, cauloside, hederagonin. ⁴⁸	Treat arthritis, wounds, regulate menstruation.

N.A.	<i>Caulophyllum thalictroides</i> (L.) Michx.	Caulophylline, caulosaponin, methylecystine, anagryrine, steroidal saponins, laburnine, magnoflorine. ^{99,103,276}	Antispasmodic, diuretic, antirheumatic, promote menstrual flow, induce abortion.
China	<i>Celtis bungeana</i> Blume <i>C. sinensis</i> Pers.	Essential oils. ⁴⁸	For dyspepsia, poor appetite, shortness of breath, swollen feet.
N.A.	<i>Celtis australis</i> L.	Tannins, mucilage. ⁹⁹	Reduce heavy menstrual flow, intermenstrual uterine bleeding.
China	<i>Centaurium meyeri</i> (Bunge.) Druce	Bitter glycoside, ophelic acid, chiretta. ⁶⁰	Treat headache, fever and infections.
N.A.	<i>Centaurium erythraea</i> Rafn.	Secoiridoid glucosides, xanthenes, benzophenone, swertiamarin, gentiopicroside. ^{305,321,322,323}	Antipyretic, antidiabetic.
China	<i>Chrysanthemum boreale</i> (Makino) Makino <i>C. jucundum</i> Nakai & Kitag. <i>C. koraiense</i> Nakai. <i>C. procumbens</i> Lour. <i>C. sinense</i> Sabine	Alpha-pinene, limonene, carvone, cineol, camphore, borneol, chrysanthinin, yejuhualactone, chrysanthemaxanthin. ³³	Antibacterial, relieve headache, insomnia, and dizziness due to high blood pressure.
	<i>Chrysanthemim cinerriaefolium</i> Visiont	Essential oil, adenine, choline, stachydrine. ⁶⁰	Used as insecticide.
N.A.	<i>Chrysanthemum parthenium</i> (L.) Berhn.	Camphor, tannins, mucilage, sesquiterpene lactone. ²⁷⁷	Treat fevers, migraine, arthritis, colds, indigestion, diarrhea, hysteria.
	<i>Chrysanthemum vulgare</i> L.	Thujone, borneol, camphor. ^{98,102}	Antispasmodic, vermifuge, emmenagogues.
China	<i>Clematis armandii</i> Franch. <i>C. heracleifolia</i> DC	Aristolochic acid, saponin akebin, triterpenoids. ^{25,33}	Diuretic, antibacterial.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Clematis chinensis</i> Retz. <i>C. florida</i> Thunb. <i>C. hexapetala</i> Pall. <i>C. minor</i> Lour. <i>C. sinensis</i> Lour. <i>C. terniflora</i> DC	Anemonin, anemonol, saponins. ^{33,49}	Analgesia, diuresis, carminative, diuretic, treat arthritis, backache, headaches.
	<i>Clematis intricata</i> Bunge. <i>C. mandshurica</i> Rupr.	Clematoside A, oleanolic acid. ⁴⁸	Relieve arthritis pain and related infections.
N.A.	<i>Clematis vitalba</i> L. <i>C. virginiana</i> L.	Protoanemonin, saponins. ⁹⁹ This herb is toxic.	Analgesic, relieve pain to arthritic joints, diuretic, counter urinary problems.
China	<i>Clinopodium chinense</i> Benth. <i>C. gracile</i> (Benth.) O. Kuntze. <i>C. polycephalum</i> Benth. <i>C. umbrosum</i> (Bleb.) C. Koch.	Dydimin, hesperidin, siosakuranetin, apigenin, ursolic acid. ⁴⁸	Hemostatic, stimulate uterine contractions, antibacterial.
N.A.	<i>Clinopodium acinos</i> L.	No information is available in the literature	
China	<i>Commiphora myrrha</i> Engler	From gum resin, essential oils including myrcene, alpha-camphorene, Z-guggulsterol, guggulsterol, makulor, cembrene. ³³	Stimulate blood flow, relieve pain, promote tissue regeneration.
N.A.	<i>Commiphora molmol</i> Engl. ex Tschirch. <i>C. myrrha</i> Engler	Gum, acidic polysaccharides, resin. ⁹⁹	Antiseptic, astringent, expectorant, anti-inflammatory, antispasmodism, carminative.

China	<i>Convallaria keiskei</i> Miq.	Convallatoxin, convallaside, convallamarin, convallatoxol. This herb is toxic. ³³	Treat heart disease, detoxify the liver.
N.A.	<i>Convallaria majalis</i> L. <i>C. sepium</i> L.	Cardiac glycosides, cardenolides, convallotoxin, convallaside, convallatoxol, flavonoid glycosides. ⁹⁹	Affect in heart failure, regulate heart beat, lower blood pressure.
China	<i>Convolvulus arvensis</i> L.	Quercetin, kaempferol, caffeic acid, beta-methylaesculetin. ⁴⁸	Improve blood circulation, relieve pain and itchiness.
N.A.	<i>Convolvulus jajapa</i> L.	Resin, convolvulin. ⁹⁹ Large dose can cause vomiting.	Elimination of profuse watery stools.
China	<i>Coptis japonica</i> Makino	Berberine, coptisine, urbenine, worenine, palmaline, jatrorrhizine, columbamine, lumicaerulic acid. ^{33,60} This herb is toxic.	Antiarrhythmic, antibacterial, antiviral, antiprotozoal, anticerebral ischemic.
N.A.	<i>Coptis groenlandica</i> Salisb. <i>C. trifolia</i> (L.) Salisb.	Isoquiniline alkaloids, berberine, coptisine. ⁹⁹	For indigestion and stomach weakness. Treat peptic ulcers. A mouthwash, lotion for canker sores.
China	<i>Cornus alba</i> L. <i>C. kousa</i> Hance. <i>C. macrophylla</i> Wallich	Quercitol, kaempferol, phenethylamine, dihydroxyglutamic acid. ⁴⁸	Astringent, antimalarial, treat arthritis, backache, diabetes, hepatitis, malaria, metrorrhagia, cancer.
	<i>Cornus officinalis</i> Sieb. et Zucc.	Morroniside, 7-O-methyl-morroniside, sworoside, loganin, longiceroside, tannic acid, resin, tartaric acid, cornin, gallic acid, malic acid. ^{33,60}	Diuretic, treat dysmenorrhea, excessive menstruation, impotency, backache, dizziness.
	<i>Cornus walteri</i> Wangerin	Fatty acid, loganin, linolenic acid. ^{48,53}	An astringent.
N.A.	<i>Cornus canadensis</i> L.	Cornine, cornic acid, quercitin, tannins. ¹⁰²	Decrease inflammation, pain, fever.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)			
Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Cornus florida</i> L.	Verbenalin, saponins, tannins, resin, gallic acid, malic acid, tartalic acid, tannic acid. ^{100,123}	An astringent, tonic, and hemostatic.
China	<i>Corydalis ambigua</i> Cham. et Schlecht. var. <i>amurensis</i> Maxim. <i>C. repens</i> Mandl. et Muehld. <i>C. ternata</i> (Nakai) Nakai <i>C. turtschaninovii</i> Besser.	d-Corydaline, corydalis, columbamine, dl-tetrahydropalmatine, crybulbine, tetrahydrocoptisine, dehydrocorydaline, corydalamine, tetrahydrocolumbamine, protopine, alpha-allocryptopine, coptisine, dehydrocorydalmine. ³³ Toxic if overdosage.	Analgesic, sedative, hypnotic, synergistic, increase coronary blood flow.
	<i>Corydalis bungeana</i> Turcz.	Protopine, pallidine, sinocecatine, corynoline, isocorynoline, coptisine, corycavine, acetylcorynoline, corynoloxin, coreximine, reliculine, corydamine, scoulerine. ^{33,50}	For rectal prolapse, abscesses, hemorrhoids.
	<i>Corydalis decumbens</i> (Thunb.) Pers.	Protopine, bulbocapnine, d-tetrahydropalmatine. Toxic if overdosage. ³³	Relieve pain after bone fractures, antihypertensive, antirheumatic.
N.A.	<i>Corydalis solida</i> (L.) DC	Corydalis, corydaline, leonticine, tetrahydropalmatine, protopine. ⁹⁹	An analgesic, antispasmodic, sedative.
China	<i>Corylus heterophylla</i> Fisch. ex Besser. <i>C. mandshurica</i> Maxim. ex Rupr.	Beta-carotene, thiamine, riboflavin, niacin, ascorbic acid. ⁵⁰	To improve appetite, a digestive.

N.A.	<i>Corylus avellana</i> L. <i>C. cornuta</i> Marsh. <i>C. rostrata</i> Marsh. <i>C. americana</i> Marsh.	Tannins, essential oil, ferric oxide, beta-sitosterol. ¹⁰²	For coughs, colds, diuretic, prostaglandin inhibition, anti-inflammation.
China	<i>Crataegus cuneata</i> Sieb. et Zucc. <i>C. chlorusarca</i> Maxim. <i>C. dahurica</i> Koehne ex Schneid. <i>C. maximowiczii</i> Schneid. <i>C. pentagyna</i> Waldst. et Kit. <i>C. pinnatifida</i> Bunge. <i>C. sanguinea</i> Pall.	Flavonoids, quercetin, hyperoside, l-epicatechin, d-catechin, saponins, chlorogenic acid, caffeic acid, citric acid, crataegolic acid, maslinic acid, ursolic acid. ^{13,33}	Cardiotonic agent, treat hypercholesterolemia, angina pectoris, hypertension.
N.A.	<i>Crataegus laevigata</i> <i>C. monogyna</i> Jacq. <i>C. oxyacantha</i> L.	Flavonoid glycosides, procyanidins, catechins, triterpenoid acid, pectins, amygdalin, proanthocyanidins, emulsin, tartaric acid, tannins, crataegus acid, rutin, coumarins, quercetin, amines. ^{99,100,231,278,279}	Therapeutic treatment of heart insufficiency, hypotensive, coronary blood supply, arrhythmia.
China	<i>Cucurbita moschata</i> Duch. <i>C. pepo</i> L.	Cucurbitine. ³³	Treat taeniasis.
N.A.	<i>Cucurbita maxima</i> L.	Linoleic acid, oleic acid, cucurbitacins, vitamins. ⁹⁹	Against tapeworms in pregnant women and in children, treat nephritis, urinary problems.
China	<i>Cuscuta australis</i> R. Brown	Carotenoids, alpha-carotene-5,6-epoxide, taraxanthin, lutein. ⁴⁸	For fever, constipation, diuretic.
	<i>Cuscuta chinensis</i> Lam. <i>C. europaea</i> L. <i>C. japonica</i> Choisy <i>C. lupuliformis</i> Krockner	Cuscutalin, bergenin, cuscutin, amarbelin, cholesterol, campesterol, beta-sitosterol, stigmasterol, beta-amyrin. ⁴⁸	Improve immunity, increase blood sugar metabolism.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Cuscuta epithymum</i> Murr.	Flavonoids, hydroxycinnamic acid, bergegin. ¹⁰²	For kidney disorder, liver disease.
China	<i>Cydonia sinensis</i> Thou.	Vitamin C, malic acid, tartaric acid, citric acid, hydrocyanic acid. ⁴⁹	As astringent in diarrhea, analgesic in arthralgia, gout, cholera.
N.A.	<i>Cydonia oblonga</i> Mill.	Tannins, pectin, mucilage, cyanogenic glycosides, amygdalin, fixed oil, tannins. ⁹⁹	For diarrhea, mouthwash, gargle to treat canker sores, gum problems, and sore throat.
China	<i>Cymbopogon citratus</i> (DC) Stapf. <i>C. goeringii</i> (Steud.) A. Camus	Elemicin, cymbopogonol, citral, caprylic, dipentene, methylheptenone, linalool, geranic, methylheptenol, nerol, alpha-terpineol, geraniol, farnesol, citrogellol, decanal, citronellal, farnesal, beta-dihydropseudoionone, isovaleric, citronellic. ^{50,60}	Treat blood in the urine, fever, antiseptic, preservative.
	<i>Cymbopogon distans</i> (Nees ex. Steud.) J. F. Watson <i>C. nardus</i> Rendle	Piperitone. ³³	Antagonize muscle contraction, antitussive, antibacterial.
N.A.	<i>Cymbopogon citratus</i> (DC ex Nees) Stapf. <i>C. martinii</i> (Roxb.) Wats. <i>C. winterianus</i> Jowitt	Volatile oil, citral, citronellal. ^{100,107,117,124}	Treat digestive problems, relieve cramping pains.
China	<i>Cynoglossum divaricatum</i> Stemphan	Potassium nitrate. ⁹⁶	A diuretic.
N.A.	<i>Cynoglossum officinale</i> L.	No information is available in the literature	

China	<i>Cyperus difformis</i> L. <i>C. glomeratus</i> L.	Allelopathic essential oils, terpenes, alpha-cyperone, beta-selinene, alpha-humulene. ^{60,197,198}	A vermifuge, antidote, remedy for dysentery.
	<i>Cyperus rotundus</i> L.	Essential oils, alpha-cyperene, beta-cyperene, alpha-cyperol, beta-cyperol, cyperone, patchoulone, kobusone, capadiene, epoxyquaine, rotundone, rotunol. ³³	Treat dysmenorrhea, menstrual irregularities.
N.A.	<i>Cyperus esculentus</i> L. <i>C. brevifolius</i> (Rottb.) Hassk.	Fixed oil (chufa, tiger nut oil). ⁹⁹	A digestive tonic, promotes urine production and menstruation.
China	<i>Cypripedium guttatum</i> Swartz <i>C. macranthum</i> Swartz.	Flavonoids, phenol, sterols, vitamin C. ⁴⁸	Diuretic, improve blood circulation, relieve pain.
N.A.	<i>Cypripedium calceolus</i> L. <i>C. pariflorum</i> var. pubescens <i>C. calceolus</i> L. var. pubescens	Cypripedin, tannic acid, gallic acid. ¹⁰⁰	Treat headache, nervousness, anodyne, antispasmodic, sedative.
China	<i>Daphne fortunei</i> Lindl. <i>D. giraldii</i> Nitsche <i>D. koreana</i> Nakai	Genkwanin, yuanhuacine, apigenin, 12-benzoydaphnetoxin, genkwadaphnin, hydroxygenkwanin, yuanhuadine, yuanhuatine. ^{33,53} This herb is toxic.	Induce abortion, treat chronic bronchitis, malaria, cutaneous infections.
N.A.	<i>Daphne mezereum</i> L. <i>D. genkwa</i> Sieb. et Zucc.	Diterpenes (daphnetoxin, mezerein), mucilage, tannins. ⁹⁹ This herb is toxic.	As an external counterirritant only, for rheumatic joints.
China	<i>Desmodium microphyllum</i> (Thunb) DC	Kaempferitrin. ⁴⁸	Antitoxic, relieve diarrhea, cough, pain, snakebites.
	<i>Desmodium pulehellum</i> (L.) Benth.	Bufotenine, nigerine, donoxime. ³³	Antimalarial, antipyretic, antischistosomiasis.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Desmodium triflorum</i> (L.) DC	Potassium oxide, silicic acid, tannin. ⁶⁰	For dysentery, antirheumatic, antipyretic, jaundice, gonorrhea. Externally for wounds, abscesses, ulcers.
	<i>Desmodium triquetrum</i> (L.) DC	Potassium oxide, silicic acid, tannin. ^{50,60}	A tonic for dyspepsia, hemorrhoids, infantile spasms, insecticide, vermicide.
N.A.	<i>Desmodium gangeticum</i> (L.) DC	Volatile oil, alkaloid. ⁹⁹	Improve appetite and digestion, treat dysentery and hemorrhoids.
China	<i>Dianthus barbatus</i> L. var. asiaticus Nakai <i>D. oreadum</i> Hance <i>D. superbus</i> L.	Dianthus saponin, essential oils, eugenol. ³³	Antipyretic, diuretic. Treat urinary tract infections, relieve strangury.
N.A.	<i>Dianthus caryophyllus</i> L.	Eugenol, benzyl benzoate, methyl salicylate. ⁹⁹	Treat kidney stones, urinary tract infections, blood in the urine.
China	<i>Dipsacus asper</i> Wall.	Essential oil, alkaloid lamine. ⁵⁰	Increase the leukocyte count, prevent spontaneous abortion.
N.A.	<i>Dipsacus fullonum</i> L.	Inulin, scabioside. ⁹⁹	Diuretic, sweat-inducing and stomach-soothing properties.
China	<i>Dolichos lablab</i> L.	Glucokinin, plant insulin, tryptophane, arginine, lysine, tyrosine. ⁶²	Treat menorrhagia, leucorrhea, metritis.
N.A.	<i>Dolichos pruriens</i> L.	No information is available in the literature	

China	<i>Dryopteris crassirhizoma</i> Nakai <i>D. laeta</i> (Kom.) Christ.	Filmarone, filicic acid, diplotene, albaspididin, flavaspidin, fernene, dryocrassin. ³³	Anthelmintic, an insecticide, antitumor.
N.A.	<i>Dryopteris filix-mas</i> (L.) Schott.	Oleo-resin, filicin, triterpenes, alkanes, volatile oil. ⁹⁹	For tapeworms.
China	<i>Ephedra distachya</i> L. <i>E. equisetina</i> Bunge. <i>E. intermedia</i> Schrenk ex Mey. <i>E. monosperma</i> Gmel. ex Mey. <i>E. sinica</i> Stapf.	l-ephedrine, l-methylephedrine, l-norephedrine, methylephedrine, d-pseudoephedrinem, d-N-methylpseudoephedrine. ^{30,31,33} This herb is toxic.	Treat asthma, sympathomimetic action, relieve headache, body ache, and coughing, lower fever by increasing perspiration.
N.A.	<i>Ephedra nevadensis</i> Wats.	Pseudoephedrine, l-ephedrine, d-pseudoephedrine. ¹⁰⁰	A decongestant and asthma remedy, for hypertension, hay fever.
China	<i>Epilobium amurense</i> Hausskn. <i>E. hirsutum</i> L. <i>E. palustre</i> L.	No information is available in the literature.	A tonic, galactagogue, stomachache, dropsy. Seed hairs are applied as a styptic.
N.A.	<i>Epilobium angustifolium</i> L.	3-O- β -D-glucuronide, mucilage, tannins. ^{103,117}	Treat skin irritation and burns, gargle for sore throat, laryngitis.
	<i>Epilobium parviflorum</i> Schreb.	Flavonoids, sitosterol, gallic acid derivatives. ¹⁴⁷	Antiphlogistic.
China	<i>Epimedium koreanum</i> Nakai <i>E. brevicorum</i> Maxim. <i>E. macranthum</i> Moore et Decne. <i>E. tanguticum</i> (L.) Hausskn.	Icarlin, noricariin, korepimodoside A, korepimodoside B, icariine, des-O-methyl-licariine, magnoflorine, epimodoside A, polysaccharides. ^{33,48}	Dilate the coronary vessels and increase the coronary flow by reducing vascular resistance.
N.A.	<i>Epimedium sagittatum</i> Jack.	No information is available in the literature.	Internally for asthma, bronchitis, cold or numb extremities, arthritis, lumbago, impotence, premature ejaculation, high blood pressure. ³⁴⁵

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)			
Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Erysimum amurense</i> Kitag. var. <i>bungei</i> (Kitag.) Kitag. <i>E. cheiranthoides</i> L.	Erysimoside, erysimosol, erucic acid, canescein, erychroside, helveticosol, erythriside, corchoroside A, erysimotoxin. ^{35,48}	Treat cold and cold-related infections, sore throat, dizziness.
N.A.	<i>Erysimum officinale</i>	No information is available in the literature	
China	<i>Erythrina corallodendron</i> L. <i>E. indica</i> Lam. <i>E. variegana</i> L.	Alkaloids. ⁵⁰ This herb is toxic.	Anthelmintic, antisyphilitic, laxative, analgesic in arthritis, neuralgia, rheumatism.
N.A.	<i>Erythrina centaurium</i> Lour.	Secoiridoids. ⁹⁹	
China	<i>Eucalyptus robusta</i> Sm.	Essential oils, cineol, thymol, gallic acid. ³³	Antibacterial, antimalarial. Externally treat <i>Trichomonas vaginalis</i> .
N.A.	<i>Eucalyptus citriodora</i> Hool. <i>E. globulus</i> Labill.	Cineole, eucalyptol, caffeic acid, coumaric acid, gallic acid, gentisic acid, hydroxybenzoic acid, syringic acid, vanillic acid. ^{99,100}	Externally for athlete's foot, dandruff, herpes, and an inhalation for fevers and asthma.
China	<i>Euonymus alatus</i> (Thunb.) Sieb. <i>E. bungeanus</i> Maxim. <i>E. maackii</i> Rupr.	Quercetin, dulcitol, epifriedelinol, friedelin, resin, fatty acid. ³³	Regulate blood flow, relieve pain, eliminate stagnant blood, treat dysmenorrhea.
N.A.	<i>Euonymus atropurpureus</i> Jacq.	Cardenolides, cardiac glycosides, asparagine, sterols, tannins. ⁹⁹	A gallbladder remedy with laxative and diuretic properties. Treat biliousness, liver problems, eczema, constipation.

China	<i>Eupatorium chinense</i> L. var. <i>simplicifolium</i> (Malcino) Kitam. <i>E. formosanum</i> L. <i>E. japonicum</i> Thunb. <i>E. lindleyanum</i> DC <i>E. odoratum</i> L.	Sesquiterpine lactones, eupatolide, eupafomonin, eupaformosanin, michelenolide, costunolide, parthenolide, santamarine. ³³	Anticancer.
N.A.	<i>Eupatorium perfoliatum</i> L.	Sesquiterpene lactones (eupafolin), polysaccharides, flavonoids, diterpenes, sterols, volatile oil. ¹⁰⁰	Immunostimulant. Relieve common cold, stimulate resistance to viral, bacterial infection.
China	<i>Fagopyrum esculentum</i> Moench. <i>F. sagittatum</i> Gilib.	Rutin, quercetin, caffeic acid, orientin, homoorientin, vitexin, saponaretin, cyanidin, leucoanthocyanin. Seeds contain amylase, linamarase, maltase, phosphatides, protease, quercitol, rhamnose, urease. ^{48,50}	For colic and diarrhea, stop cold sweats.
	<i>Fagopyrum tataricum</i> (L.) Gaertn.	Rutin, flavones. ⁴⁸	For stomachache, leg pain, a digestive.
N.A.	<i>Fagopyrum turticum</i> (L.) Gaertn. <i>F. esculentum</i> Moench.	Bioflavonoids, rutin. ⁹⁹	Strengthen the inner lining of blood vessels.
China	<i>Fragaria indica</i> Andr.	Emodin, chrysophanic acid, phytosterol, volatile oil, calcium. ⁶⁰	Insecticide, antidote, treat whitlow, burns, snakebite.
N.A.	<i>Fragaria vesca</i> L.	Tannins, vitamin C, pectin, citric acid, malic acid. ¹⁰²	Stimulate appetite, antidyspeptic.
China	<i>Fraxinus bungeana</i> DC <i>F. chinensis</i> Roxb. <i>F. floribunda</i> Bunge. <i>F. obovata</i> Blume. <i>F. ornus</i> L. var. <i>bungeana</i> Hance <i>F. rhynchophylla</i> Hance.	Fraxin, aesculin. ³³ This herb is toxic.	Antibacterial, analgesic, anti-inflammatory.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Fraxinus americana</i> L. <i>F. excelsior</i> L. <i>F. ornus</i> L.	Coumarins, flavonoids, tinnins, volatile oil. ⁹⁹	A tonic, astringent, laxative, diuretic, treat fevers.
China	<i>Galium bungei</i> Stead. <i>G. spurium</i> L. <i>G. verum</i> L. var. <i>leiocarpum</i> Ledeb.	Alisarin, rubrierythrinic acid, purpurin. ⁶⁰	Treat rheumatism, jaundice, menstrual difficulties, epistaxis, hemorrhages.
N.A.	<i>Galium aparine</i> L.	Iridoid valepotriates, polyphenolic acids, anthraquinones, tannins. ^{99,107}	For vitamin C deficiency.
China	<i>Gaultheria leucocarpa</i> f. var. <i>cumingiana</i> (Vidal) Sleumer	Methylsalicylate, salicylic acid. ⁶⁰	Treat rheumatism, an antiseptic.
N.A.	<i>Gaultheria procumbens</i> L.	Methylsalicylate. ¹⁰⁰	Antiseptic, carminative, diuretic.
China	<i>Gelidium amansii</i> Lamx.	Agarose, agarpectin, taurine. ³³	A mild laxative in the treatment of chronic constipation.
N.A.	<i>Gelidium cartilagineum</i> L.	Polysaccharides, agarose, agarpectin, mucilage. ⁹⁹	Laxative, stimulating bowel activity and elimination of feces.
China	<i>Geranium dahuricum</i> DC <i>G. eriostemon</i> Fisch. ex DC <i>G. sibiricum</i> L. <i>G. wilfordi</i> Maxim.	Kaempferitrin, gallic acid, quercetin, succinic acid, tannin. ^{48,50,65}	Astringent, for diarrhea, endometritis, nervous diseases, numbness of limbs, pains, rheumatism. It helps circulation and strengthens bones and tendons.
N.A.	<i>Geranium macrorrhizum</i> L. <i>G. robertianum</i> L. <i>G. maculatum</i> L.	Tannins. ⁹⁹	Treat stomach disorder, aphrodisiac, colitis, peptic ulcer.

China	<i>Geum aleppicum</i> Jacquin	Flavones, fatty acids, eugenol, gein, geoside. ⁴⁸	Treat bleeding, bug bite, convulsive disorder, fevers, irritability, obstinate skin diseases.
N.A.	<i>Geum urbanum</i> L.	Phenolic glycosides (eugenol), tannins, volatile oil, sesquiterpene lactone, cnicin. ⁹⁹	Treat mouth, throat, and gastrointestinal tract disorders. For peptic ulcers, irritable bowel syndromes.
China	<i>Glycyrrhiza pallidiflora</i> Maxim. <i>G. uralensis</i> Fisch. ex DC	Glycyrrhiza, triterpenoid saponin, flavonone glucoside, liquiritin, aglycone, liquiritigenin, chalcone glucose, isoliquiritin, aglycone, isoliquiritigenin. ^{1,33}	Anti-inflammatory, anticonvulsant, calmative, antidote, antispasmodic, anti-ulcer.
N.A.	<i>Glycyrrhiza glabra</i> L.	Glycyrrhizin, mucilage, flavonoids, glycyrrhetic acid, saponin, glabridin, tannic acid, 2- β -glucuronosyl, glucuronic acid. ^{99,100,107,280,281,312}	Antiulcerative, treat stomach, duodenal ulcers, anti-inflammatory, antiallergic, antihepatitis.
China	<i>Hedera rhombea</i> (Miq.) Bean	Hederin, hederic acid, tannic acid, oleic acid. ⁵⁰	For cough, headache, diaphoretic, emmenagogue.
N.A.	<i>Hedera helix</i> L.	Tannins, hederin, aglycone, iodine, beta-elemone, elixen, hederacoside B, hederacoside C, germacrene B. ¹⁰⁰	An expectorant with antispasmodic and cardiac actions.
China	<i>Hepatica asiatica</i> Nakai	No information is available in the literature.	Anodyne, antifebrile, for angina and sunstroke, local application in smallpox ulcerations. ³³
N.A.	<i>Hepatica nobilis</i> Gars.	No information is available in the literature.	For bronchial and digestive complaints, and liver and gall bladder disorders. ³⁴⁵

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Heracleum dissectum</i> Ledeb.	This herb is used in the same way and as a substitute for Angelica (ferulic acid, succinic acid, nicotinic acid, uracil, adenine, butyridenephthalide, ligustilide, folinic acid, biotin, polysaccharide ³³), with less effect. ⁶⁰	Relieve headache, toothache, hematuria, gonorrhea, itching skin, swellings, remove corns from the feet.
N.A.	<i>Heracleum maximum</i> Barr. <i>H. lanatum</i> Michx. <i>H. sphondylium</i> L.	Sphondin, psoralen, heraclein, glutamine, essential oil. ¹⁰²	For headaches, poor memory, melancholy, agitation, indigestion, and asthma.
China	<i>Hieracium umbellatum</i> L.	Vitamin C, tannic acid. ⁴⁸	Relieve pain, bladder infection, diarrhea.
N.A.	<i>Hieracium pilosella</i> L.	Coumarin, umbelliferone, flavonoids, caffeic acid. ⁹⁹	Antifungal. Relax the muscles of the bronchial tubes, stimulate the cough reflex, reduce mucus.
China	<i>Hydnocarpus anthelmintica</i> Pierre <i>H. castaneus</i> H. F. & Th.	Hydnocarpus oil, hynocarpic acid, chaulmoogric acid, gorlic acid. ³³	Anthelmintic.
N.A.	<i>Hydnocarpus kurzii</i> (King) Warb.	No information is available in the literature. This herb may cause vomiting, dizziness and breathing difficulties. ³⁴⁵	For leprosy, scabies, eczema, psoriasis, scrofula, ringworm, and intestinal worms. ³⁴⁵
China	<i>Hydrangea macrophylla</i> (Thunb.) Seringe	Febrifugin, hydrangeic acid, hydrangenol, rutin. ⁵⁰	Antimalarial, antitussive, diuretic.
N.A.	<i>Hydrangea arborescens</i> L.	Flavonoids, cyanogenic glycoside, saponins, hydrangein, tannin. ^{99,100}	Treat kidney and bladder stones.

China	<i>Hyoscyamus bohemicus</i> F. W. Schmidt	Alkaloid. ⁶⁰ This herb is mildly toxic.	Antispasmodic activity.
N.A.	<i>Hyoscyamus niger</i> L.	Tropane alkaloids, hyoscyamine, hyoscyne. ⁹⁹	A sedative, painkiller, antispasmodic.
China	<i>Hyssopus ocyimifolius</i> Lam.	Essential oils, elsholtzia ketone, elsholtzianic acid, furylmethyl ketone, furylpropyl ketone, furylisobutyl ketone, furane, pinene, terpene. ⁴⁹	Stomachic, carminative, diuretic.
N.A.	<i>Hyssopus officinalis</i> L.	Pinene, limonene, pinene, pinene, hesperidin, tannins, terpenes. ^{99,107}	Treat respiratory problem, coughs, sore throat, hoarseness, asthma, bronchitis.
China	<i>Ilex chinensis</i> Sims.	Protocatechuic acid, protocatechuic aldehyde, ursolic acid, tannic acid. ³³	Treat angina pectoris, thrombophlebitis, extremity ulceration.
	<i>Ilex pubescens</i> Hook & Am.	Flavone, ursolic acid, 3,4-dihydroxyacetophenone, scopoletin, hydroquinone, vomifol. ³³	Treat angina pectoris, acute myocardial infarction, central angiospastic retinitis, cerebral thrombosis, thrombophlebitis.
N.A.	<i>Ilex aquifolium</i> L. <i>I. paraguensis</i> st. Hil.	Triterpenoids, salicylic acid, caffeine, isophthalic acid. ¹⁴⁷	Relieve menstrual cramps, calm nervous stomach.
China	<i>Impatiens balsamina</i> L. <i>I. noli-tangere</i> L. <i>I. textori</i> Miq.	Gentisic acid, ferulic acid, p-coumaric acid, sinapic acid, caffeic acid, scopoletin, lawsone. ³³	Treat arthritis, relieve pain.
N.A.	<i>Impatiens pallida</i> Nutt. <i>I. capensis</i> Meerb.	Lawsone, seed oil contains alpha-spinasterol, beta-ergosterol. ³⁰²	Remedy for rashes, pain caused by insect bites, anti-inflammatory.
China	<i>Inula britannica</i> L. <i>I. japonica</i> Thunb. <i>I. linariaefolia</i> Turcz. <i>I. salsoloides</i> (Turcz.) Ostenfeld.	Inulsterol A, taraxasterol, inulsterol B, inulicin, flavone, caffeic acid, chlorogenic acid, isoquercitrin, quercetin. ^{48,50}	Discurient, vulnerary, carminative, deobstruent, diuretic, treat ascites, bronchitis, cancer, chest congestion.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Inula helenium</i> L.	Inulin, resin, mucilage, helenalin, dammaranediol. ⁹⁹	For asthma, chest cold, stomach ulcers, antitussive, diuretic, antiseptic.
China	<i>Ipomoea barbata</i> Both. <i>I. hederacea</i> Jacq. <i>I. triloba</i> Thunb.	Glycoside pharbitin, gibberellin, pharbilic acid. ³³ This herb may be toxic.	Potent purgative, purge parasites, ascaris, and taenia. Treat constipation, edema.
	<i>Ipomoea cairica</i> (L.) Sweet	Muricatin A, beta-sitosterol. ⁵⁰	Purgative.
N.A.	<i>Ipomoea purga</i> (Wender) Hayne	Convolvulin. ⁹⁹	Elimination of profuse watery stools.
China	<i>Iris aqyatuca</i> Forskal <i>I. buataas</i> (L.) Lamarck. <i>I. dichotoma</i> Pallas	Tectoridin, iridin, flavon. ⁴⁸	Treat lung diseases, cough, pneumonia, uneasy breathing.
	<i>Iris lactea</i> Pall. subsp. chinensis (Fisch.) Kitag.	Iridin, irigenin, irisflorentin. ⁶⁰	Astringent, diuretic, hemostatic, remedy for hemorrhage, postpartum difficulties.
	<i>Iris pallasii</i> Fisch.	Irisquinone. ³³	Treat cancer, hepatoma, lymphatic sarcoma.
N.A.	<i>Iris versicolor</i> L. <i>I. pseudacorus</i> L.	Triterpenoids, salicylic acid, isophthalic acid, alpha-phytosterol, myricyl alcohol. ¹⁰⁰	Relieve menstrual cramps, calm nervous stomach.
China	<i>Isatis chinensis</i> (Thunb.) Nakai	Quercetin, kaempferol, stachyose, manneotetrose, lupeose, cicerose, isatan, indoxyl-5-ketogluconate. ⁵⁰	Antiviral, antibacterial, increase blood flow, improve microcirculation, lower blood pressure.
	<i>Isatis indigotica</i> Fortune ex Lindley <i>I. oblongata</i> DC	Indican, isatan B, indigo, glucobrassicin, meoglucobrassicin. ³³	Antibacterial, antipyretic, anti-inflammatory, choleric.

N.A.	<i>Isatis tinctoria</i> L.	No information is available in the literature.	For meningitis, encephalitis, mumps, influenza, erysipelas, heat rash, sore throat, abscesses, and swellings. ³⁴⁵
China	<i>Jasminum mesnyi</i> Hance <i>J. nudiflorum</i> Lindley	Syringin, jasmiflorin, jasmipierin, mannose, tannin. ⁶⁰	Diaphoretic.
	<i>Jasminum samba</i> (L.) Aiton	Formic acid, benzoic acid, acetic acid, anthranil acid, sesquiterpene, sesquijasmine. ⁶⁰ This herb (root) is toxic.	Sedative, anesthetic, vulnerary properties. For congestive headache, lactifuge.
N.A.	<i>Jasminum grandiflorum</i> L. <i>J. officinale</i> L.	Essential oil, isoquercitrin, ursolic acid, 2-3,4-dihydroxyphenyl-ethanol. ^{282,283}	Treat high fever, sunstroke, cancer, and Hodgkin's disease.
China	<i>Juniperus rigida</i> Sieb. et Zucc.	Alpha-pinene, myrcene, carene, limonene, p-cymene, beta-elemene, caryophyllene, humulene, r-cadinene, terpinene, borneol, citronellol, anethole. ⁴⁸	Hemorrhage, treat hemoptysis, inflammation, kidney infection, arthritis joint infection.
	<i>Juniperus rigida</i> Sieb. et Zucc. f. <i>modesta</i> (Nakai) Y. C. Chu	Alpha-pinene, myrcene, carene, limonene, p-cymene, beta-elemene, caryophyllene, humulene, r-cadinene, terpinene, borneol, citronellol, anethole. ⁴⁸	Hemorrhage, treat hemoptysis, inflammation, kidney infection, arthritis joint infection.
N.A.	<i>Juniperus communis</i> L. <i>J. horizontalis</i> Moench. <i>J. sabina</i> L.	Resin, pinene, borneol, inositol, juniperin, limonene, cymene, terpinene. ^{100,102,107}	For dropsy, bladder and kidney disorders, rheumatic pain.
China	<i>Justicia gendarussa</i> L. <i>J. procumbens</i> L.	Gentianine, gentianidine, gentianol. ³³	Treat rheumatism and fever, antipyretic, anti-inflammatory, antihypersensitivity and antihistaminic effects.
N.A.	<i>Justicia adhatoda</i> L.	Alkaloids, volatile oil. ⁹⁹	For bronchitis, tuberculosis.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)			
Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Lactuca raddeana</i> Maxim. <i>L. indica</i> L. <i>L. sativa</i> L.	Pectic compound, oxalic acid, malic acid, citric acid, ceryl alcohol, ergosterol, vitamin E. ⁵⁰	Anodyne, lactagogue, for genital swelling, hemorrhoids, lumbago.
N.A.	<i>Lactuca serriola</i> L.	Sesquiterpene lactones, lactucopicrin, lactucerin, flavonoids, coumarins. ⁹⁹	Sedative, for excitability in children, treat coughs, lower the libido, relieve pain.
China	<i>Laminaria angusta</i> Kjellm <i>L. japonica</i> Aresch. <i>L. religiosa</i> Miyabe.	Iodine, potassium, calcium, amino acids, laminarin, laminine, algin. ³³	Improve thyroid function, correct the malignant vicious cycle effect of iodine deficiency, lower blood pressure.
N.A.	<i>Laminaria digitata</i> (Hudss.) Lank. <i>L. longicuris</i> Lank. <i>L. saccharine</i> (L.) Lank.	Phenols, polysaccharides, iodine. ^{284,285,286,287,288}	Treat iodine deficiency, antibiotic, promote hormone production.
China	<i>Leonurus heterophyllus</i> Sweet <i>L. japonicus</i> Houttuyn. <i>L. macranthus</i> Maxim. <i>L. mongolicus</i> V. Kreczet. et Kupr.	Leonurine, stachydrine, leonardine, leonurine, vitamin A, fatty oils. ³³	Stimulates uterine contractions, respiratory system, proliferation of T cells, skeletal muscles.
	<i>Leonurus sibiricus</i> L. <i>L. sibiricus</i> L. f. albiflorus (Nakai et Kitag.) G. Y. Wu et H. W. Li	Essential oil, leonurin. ⁴⁹	Emmenagogue, diuretic, vasodilator.
N.A.	<i>Leonurus cardiaca</i> L.	Leonurin, leonuride, pyrogallol, catechins, choline, saponins. ¹⁰⁰	Emmenagogue, cardiologic, astringent, antispasmodic, hypotensive.
China	<i>Ligusticum chuanjiang</i> Hort.	Tetramethylpyrazine, perlolyrine, leucylphenylalanine anhydride, cnidilide, neocnidilide, ligustilide. ³³	Promote blood flow, remove blood stasis and relieve pain.

China	<i>Ligusticum jeholense</i> (Nakai et Kitag.) Nakai et Kitag. <i>L. sinense</i> Oliv. <i>L. tenuissimum</i> (Nakai) Kitag.	Nothosmyrnol. ³³	Induce diaphoresis, for gout, an anodyne, emmenagogue, sedative.
N.A.	<i>Ligusticum scoticum</i> L.	Phthalides, terpenoides, essential oil. ⁹⁹	Prevent bone marrow loss, treat acquired immune deficiency syndrome, respiratory tract infections, hepatitis, hypertension, Parkinson's disease.
China	<i>Ligustrum japonicum</i> Thunb. <i>L. lucidum</i> Mill.	Nuzhenide, oleanolic acid, ursolic acid. ³³	Increase leukocyte count, a cardiac tonic, diuretic.
N.A.	<i>Ligustrum vulgare</i> L.	Essential oil, phthalides, terpenoides. ¹⁰⁰	Prevent bone marrow loss, treat acquired immune deficiency syndrome, respiratory tract infections, hypertension, Parkinson's disease, and hepatitis.
China	<i>Lilium japonicum</i> Thunb. <i>L. lancifolium</i> Thunb. <i>L. pumilum</i> DC <i>L. concolor</i> Salisb.	Protein, colchicine. ⁴⁹	Relieve coughing, ease anxiety, improve digestion, treat anxiety, apprehension, carminative, sedative, gynecologic disorders.
N.A.	<i>Lilium candidum</i> L.	No information is available in the literature.	
China	<i>Lindera akoensis</i> Hayata <i>L. obtusiloba</i> Blume f. <i>villosa</i> (Blume) Kitag.	Campesterol, linderol, capric acid, lauric acid, myristic acid, linderic acid, dodecen-4-oic acid, tetradecen-4-oic acid, tsudzuic acid, oleic acid, linoleic acid. ⁴⁸	Treat wounds, reduce swelling, pain.
	<i>Lindera communis</i> Hemsley	Fatty acids. ⁵⁵	Relieve swelling, pain, bleeding, treat infection.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Lindera glauca</i> (Sieb. et Zucc.) Blume.	Essential oils, cineole, caryophyllene, bornylacetate, camphene, beta-pinene, limonene, fatty acids. ⁵⁵	Carminative properties, treat arthritis joint pain.
	<i>Lindera megaphylla</i> Hemsley	Essential oils. ⁵⁵	Promote sweating, treat wounds.
	<i>Lindera strychnifolia</i> Vill.	Essential oils including lindenene, lindenane, lindenene, lindenolactone, isolindenolactone, isolindenoxide, lindenolide, isofuranogermacrene, lindenoxide, neolindenolactone. ³³	Improve circulation, relieve pain, abdominal distention, fever.
N.A.	<i>Lindera benzoin</i> (L.) Blume	No information is available in the literature.	
China	<i>Liquidambar acerifolia</i> Max. <i>L. formosana</i> Hance <i>L. maximowiczii</i> Miq.	Balsam (resin), cinnamic alcohol, cinnamic acid, l-borneol, camphene, dipentane, terpene. ^{60,69}	Analogous, externally as antiphlogistic and astringent in skin diseases, antihemorrhagic.
N.A.	<i>Liquidambar orientalis</i> Mill. <i>L. styraciflua</i> L.	Levant storax: cinnamic acid, cinnamyl cinnamate, phenylpropyl cinnamate, triterpene acid. ⁹⁹	Internally for strokes, infantile convulsions, coma, heart disease, and pruritus.
China	<i>Lobelia chinensis</i> L. <i>L. pyramidalis</i> Wallich. <i>L. sessilifolia</i> Lambert	Lobeline, lobelanine, lobelanidine, isolobelamine. Lobeline has been approved by the FDA to curb the tobacco habit. ^{33,50,71} This herb may be toxic.	Diuretic, increase respiration via stimulation of carotid chemoreceptors. Treat snakebites, insecticide, reduce swelling, depurative, antirheumatic, antisyphilitic.
N.A.	<i>Lobelia inflata</i> L.	Lobeline, lobelidol, lobelanidine, carboxylic acid. ^{99,100,289}	Respiratory stimulant, antispasmodic, induce vomiting.
	<i>Lobelia siphilitica</i> L.	Alkaloids. ¹⁵⁴	Treat syphilis.

N.A.	<i>Lobelia pulmonaria</i> L.	d-Usonic acid, thamnolic, polysaccharides, anthraquinones. ¹⁵⁴	Stimulate immune system, antitumor, cancer.
China	<i>Lonicera acuminata</i> Wallich <i>L. apodonta</i> Ohwi <i>L. brachypoda</i> DC <i>L. chinensis</i> Wats. <i>L. hypoglauca</i> Miq.	Luteolin, inositol, lonicerin, loganin, syringin, saponins, tannin, chlorogenic acid, luteolin-7-rhamnoglucoside. ^{33,48,55}	Antibacterial, cytoprotective, antilipemic, antiphlogistic.
N.A.	<i>Lonicera caerulea</i> L. <i>L. caprifolium</i> L.	Sorbitol, inositol, limonic acid, malic acid, citric acid, tannins, salicylic acid. ¹⁰²	Hypotensive, sedative, antipyretic.
China	<i>Loranthus parasiticus</i> (L.) Merr. <i>L. yadoriki</i> Sieb. et Zucc.	Saponins, including avicularin, quercetin. ⁴⁰	Treat angina pectoris, cardiac arrhythmias, hypertension. Ointment to treat frostbite.
N.A.	<i>Loranthus europaeus</i> L.	Flavonoids, kaempferol, quercetin. ³²⁸	
China	<i>Lycium barbarum</i> L. <i>L. chinense</i> Miller	Betaine, zeaxanthin, physalein, carotene, nicotinic acid, vitamin C. ³³	Increase leukocyte count, increase immunity, stimulation of tissue development.
N.A.	<i>Lycium pallidum</i> L.	Betaine, beta-sitosterol, physalin, cinnamic acid, psyllic acid, carotene. ⁹⁹	Treat blood pressure, menopausal complaints, chronic fevers, internal hemorrhage, tuberculosis.
China	<i>Lycopus fargesii</i> Herter <i>L. lucidus</i> Turcz. <i>L. obscurum</i> L. <i>L. phlegmaria</i> L. <i>L. veitchii</i> Christ.	Resin, lycopose, raffinose, stachyose, glucose. ⁴⁸	For abdominal distention, abscesses, congestive edema, blood extravasation.
N.A.	<i>Lycopus virginicus</i> L.	Phenolic acids, caffeic derivatives, chlorogenic derivatives, ellagic acids. ⁹⁹	Treat overactive thyroid gland, an astringent to reduce the production of mucus.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Lysimachia barystachys</i> Bunge. <i>L. christinae</i> Hance <i>L. clethroides</i> Duby <i>L. davurica</i> Ledeb.	Essential oils, l-pinocamphone, l-menthone, l-pinene, limonene, 1,8-cineol, p-cymene. ³³	Diuretic, a choleretic agent, antibacterial.
N.A.	<i>Lysimachia vulgaris</i> L.	Saponins, flavonoids, tannins, benzoquinene. ⁹⁹	Treat gastrointestinal conditions such as diarrhea, dysentery, stop bleeding.
China	<i>Mahonia japonica</i> DC	Berberine, jatrorrhizine. ⁹⁷	Antipyretic, backache, cough, dysentery, enteritis, fever.
N.A.	<i>Mahonia aquifolium</i> (Lindl.) Don	Berberine, protoberberine alkaloids, oxyberberine, magnoflorine, columbamine. ^{100,273,274}	Treat eczema, gall bladder disorder, chronic hepatitis B, gastritis, diarrhea, antipsoriasis.
China	<i>Malva chinensis</i> Mill. <i>M. pulchella</i> Berhn. <i>M. verticillata</i> L.	l-arabinose, l-rhamnose, d-galacturonic acid. ⁷⁵	Treat stomach and intestinal disorders, to make labor easier, laxative, treat gonorrhea, congestion, constipation.
N.A.	<i>Malva rotundifolia</i> L. <i>M. sylvestris</i> L.	Flavonol glycosides, gossypin-3-sulfate, mucilage, tannins, anthocyanin, malvin. ⁹⁹	A demulcent, a poultice to reduce swelling and draw out toxins. Internally to reduce gut irritation, laxative effect.
China	<i>Marsdenia tenacissima</i> (Roxb.) Wight. et. Arn.	Saponins, marsdeoreophisides, metaploxigenin, sarcostin. ³³	Antiasthmatic, hypotensive, antibacterial.
N.A.	<i>Marsdenia condurango</i> R. Br.	Condurangogenins, volatile oil, phytosterols. ⁹⁹	Stimulate stomach secretions. A digestive tonic.

China	<i>Melilotus alba</i> Medicus <i>M. indica</i> (L.) All. <i>M. suaveolens</i> Ledeb.	Hydroxycinnamic acid, coumarinic acid, 4-hydroxycinnamic acid, coumaric acid, umbelliferone, scopoletin, melilotoside, melilotic acid, beta-D-glucosyloxy, dicumarol, chlogogenic acid, caffeic acid, melilotic acid. ⁴⁸	Anticoagulant, treat bowel complaints, infantile diarrhea. A bactericide.
N.A.	<i>Melilotus arvensis</i> L.	Flavonoids, coumarins, resin, tannins, volatile oil, dicoumarol. ¹⁰²	Help varicose veins and hemorrhoids, reduce the rash of phlebitis and thrombosis.
	<i>Melilotus officinalis</i> Lamk.	Flavonoids, resin, tannins, coumarins, hydroxycoumarin, hydrocoumarin. ^{99,107}	Reduce the risk of phlebitis and thrombosis, sedative, antispasmodic.
China	<i>Melochia corchchonfolia</i> L.	Trifalin, melocorin, hibifolin. ⁵⁷	As poultice to treat sores, swelling, and pain in the abdomen. Also treat vomiting.
N.A.	<i>Melochia tomentosa</i> L.	Melovinone, melosatin D, stigmaterol, beta-sitosterol, beta-sitosterol, beta-D-glucoside, octacosanol. ^{326,327}	Tumourigenic properties.
China	<i>Menispermum dauricum</i> L.	Acutumine, acutuminine, dauricine, disinomenine, magnoflorine, menispermine, sinomenine, stepharine, tetrandrine. ⁵⁰	Antitumor, cytotoxic, alleviate skin allergies, antirheumatic, anticancer against esophageal cancer.
N.A.	<i>Menispermum canadense</i> L.	Dauricine, tetrandrine, viburnito, acutumine, acutomidine, daurinoline, N-desmethyldauricine, magnoflorine. ¹⁰⁰ Fruits are toxic if eaten in quantity.	Cyanogenetic, diuretic, laxative, nervine, stomachic.
	<i>Menispermum palmatum</i> L.	Pulegone, pinenes, limonene, lauric acid, myristic acid, palmitic acid, beta-methyl-adipic acid, phenol, cresols, eugenol. ¹⁰⁰	For uterine tumors, uterine fibroids, indurations of the uterus.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Mentha arvensis</i> L. <i>M. dahurica</i> Fisch. ex Benth. <i>M. haplocalyx</i> Briq. <i>M. sachalinensis</i> (Briq.) Kudo	Menthol, menthone, methyl acetate. ³³	Stimulate gastrointestinal tract motility and central nervous system, dilate peripheral blood vessels. Increase sweat gland secretion.
N.A.	<i>Mentha pulegium</i> L.	Pulegone, isopulegone, menthol, terpenoids. ⁹⁹	Digestive tonic, relieve flatulence and colic.
	<i>Mentha spicata</i> L. <i>M. x piperita</i> L.	Menthol, menthone, isomenthone, pinene, myrcene, limonene, cineole, cymene, terpinene, carvone, luteolin. ^{99,100,107,130}	Carminative, stomachic, mild antispasmodic, expectorant, antiseptic, and local anesthetic properties.
China	<i>Mimosa arborea</i> Thunb.	Tannin, saponins. ⁴⁹	Tonic, stimulant, anthelmintic.
	<i>Mimosa invisa</i> Mart. et Colla	Minosine. ⁷⁸ This herb is toxic if overdose.	Treat neurosis, trauma wound, and hemoptysis. It has a tranquilizing effect.
N.A.	<i>Mimosa hostilis</i> Benth.	Nigerine. ¹⁰⁰	An astringent, cure fatigue.
China	<i>Morinda citrifolia</i> L. <i>M. officinalis</i> L.	Dihydroxy methyl anthraquinone, glucoside morindin, rubichloric acid, alizarin, alpha-methyl ether, rubiadin-I-methyl ether, tannin, morindadiol, soranjudiol, masperuloside, nordamnacanthal. ⁵⁰	Treat beri-beri, cancer, lumbago, cholecystitis, increase leukocyte count, stimulate endocrine system.
	<i>Morinda parvifolia</i> Bartling	Methanolic, morindaparvin-A, alizarin-l-methyl ether. ⁵⁰	Against p-388 lymphocytic leukemia growth (<i>in vivo</i>), cytotoxic, antileukemic.

N.A.	<i>Morinda didyma</i> L. <i>M. fistulosa</i> L. <i>M. punctata</i> L.	Morindin, vitamin C. ⁹⁹	Treat impotence and premature ejaculation in men, infertility.
China	<i>Murraya paniculata</i> (L.) Jack	L-Cadinene, methylanthranilate, carene, bisabolene, paniculatin coumurrayin, 5-guaizulene, osthol, beta-caryophyllene, geraniol. ³³	Relieve pain, remove toxic substances, an antispasmodic, antagonize muscular spasms.
N.A.	<i>Murraya koenigii</i> (L.) K. Spreng.	Glycoside (koenigin), volatile oil, tannins. ⁹⁹	Increase digestive secretions, relieve nausea, indigestion, and vomiting. Treat diarrhea and dysentery.
China	<i>Myrica rubra</i> (Lour.) Sieb. et Zucc.	Myricetin. ³³	Treat gastric pain, diarrhea, dysentery.
N.A.	<i>Myrica cerifera</i> L. <i>M. penxylvanica</i> Lois.	Triterpenes, flavonoids, tannins, phenols, resins. ⁹⁹	Increase circulation, stimulate perspiration.
China	<i>Nardostachys jatamansi</i> DC	Essential oil, jatamansic acid, sesquiterpene. ^{49,80}	Aromatic stomachic, sedative, antispasmodic.
N.A.	<i>Nardostachys grandiflora</i> DC	No information is available in the literature.	For nervous indigestion, insomnia, depression, and tension headaches. ³⁴⁵
China	<i>Nelumbium nelumbo</i> Druce.	Liensinine, isoliensinine, neferine, lotusine, methyl-corypalline, demethyl-coclaurine. ³³	Tranquilizing and antihypertensive.
	<i>Nelumbium nuciferum</i> Gaertner <i>N. speciosum</i> Willd.	Nuciferine, roemerine, anonaine, O-nornuciferine, lirodenine, aneparine, dihydronuciferine, pronuciferine, N-methylcoclaurine, N-methylisococlaurine. ³³	Relaxing effect on smooth muscles, increase essential body energies.
N.A.	<i>Nelumbium officinale</i> L.	No information is available in the literature.	For hemorrhage, nosebleed, excessive menstruation, hypertension. ³⁴⁵

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Nerium indicum</i> L.	Oleandrin (toxic), oleandrose. ³³	Treat psychosis, congestive heart failure, analgesic, emmenagogue.
N.A.	<i>Nerium oleander</i> L.	Oleandrin, neriin, folinerin, rosagenin, cornerin, pseudocuramine, rutin, cortenerin, oleandomycin. ¹⁰⁰ This herb is highly toxic.	Cardiac, cardiotonic, cyanogenetic, diuretic, emetic, emmenagogue, insecticidal, parasiticide, purgative, sternutatory, stimulant.
China	<i>Nymphaea tetragona</i> Georgi	Amino acids. ⁴⁸	A cooling lotion to apply to eruptive fevers, treat colic, gonorrhea, lower blood pressure.
N.A.	<i>Nymphaea alba</i> L.	Tinnins, nupharine, nymphaeine, resin. ⁹⁹	Astringent, cardiologic and antispasmodic properties, a proprietary medicine to reduce sexual drive.
China	<i>Oplopanax elatus</i> (Nakai) Nakai	Essential oil, echinopanacene, n-caprylaldehyde, echinopanacol, oplopanaxosides, flavonoids. ^{48,50,72}	A remedy and tonic for progressive emaciation.
N.A.	<i>Oplopanax horridus</i> (Sm.) Miq.	Sesquiterpene. ^{103,290}	Hypoglycemic effects, reduce serious implications caused by diabetes such as kidney and heart disease. Treat arthritis, rheumatism, stomach and digestive problems.
China	<i>Orchis latifolia</i> L.	No information is available in the literature.	Sialagogue, treat anemia.
N.A.	<i>Orchis mascula</i> L.	Mucilage. ⁹⁹	Treat diarrhea, irritated gastrointestinal tracts in children.

China	<i>Oxalis corriculaza</i> L. <i>O. corymbosa</i> DC	Oxalate, vitamin C, calcium, citric acid, malic acid, tartaric acid. ⁵⁰	Antidote to arsenic and mercury, for bruises, clots, diarrhea, fever, influenza, snakebite, urinary infections.
N.A.	<i>Oxalis acetosela</i> L.	No information is available in the literature. It is toxic in large quantities.	An astringent, diuretic, treat fevers and urinary problems. ³⁴⁸
China	<i>Papaver amurense</i> (N. Busch) N. Busch ex Tolmatchev. <i>P. nudicaule</i> L.	Amurine, amuroline, amuroine, coptisine, nudaurine, muramine, nudicaulin. ⁴⁸	For cough, headache, intestinal infection, blood in the urine, stomach ulcer.
	<i>Papaver rhoeas</i> L.	Rhoeadine, rhoeagenine. ⁷²	For jaundice, as a gargle, or ingested as bechic.
	<i>Papaver somniferum</i> L.	Berberine, codeine, papaverine, isocorypalmine, laudanine, magnoflorine, meconine, 6-methylocodine, morphine, narcotine, pseudomorphine, rhoeadine, sanguinarine, beta-sitosterol, stigmasterol, thebaine, zanthaline. ⁵⁰	Antitussive, antispasmodic, analgesic, astringent, narcotic, treat chronic enteritis, diarrhea, enterorrhagia, headache, toothache, asthma.
N.A.	<i>Papaver bracteatum</i> Lindl.	Thebaine, oripavine, morphine, codeine. ^{99,100}	Mild sedative to induce sleep in babies, ease cough, relieve pain, narcotic analgesic, antitussive.
China	<i>Parietaria micrantha</i> Ledeb.	Protocatechuic acid. ⁵⁰	For fractures, hemorrhage, lumbago, myalgia, numbness, renitis, rheumatism.
N.A.	<i>Parietaria judaica</i> L.	Flavonoids, tannins. ⁹⁹	A diuretic, demulcent, laxative. Restorative action on the kidneys, for nephritis, pyelitis, kidney stones, renal colic, cystitis, and edema.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Pedicularis resupinata</i> L.	Alpha-amyrin, beta-amyrin, betulinic acid, cholesterol, kaempferol. ^{50,218}	Used in fever, leucorrhea, rheumatism, sterility, urinary difficulties, anti-inflammation, dryness of the mouth, tongue, and tinnitus.
N.A.	<i>Pedicularis palustris</i> L. <i>P. canadensis</i> L.	Alkaloids, phenyl-propanoid glycosides, iridoid glucosides. ³⁰³	Treat swelling internally, coughs, uterine spasms, with antioxidant property.
China	<i>Peucedanum decursivum</i> Max.	Glycoside nodakenin. ⁴⁹	Analgesic, antipyretic, antitussive, treat headache, bronchitis, asthma, pertussis.
	<i>P. formosanum</i> Hayata	Anomalin, coumarine, peuformosin. ⁵⁶	Cooling function, relieve pain, cough, treat cold, headache.
	<i>P. japonicum</i> Thunb. <i>P. praeruptorum</i> L.	Nodakenetin, nodakenin, decursidin, umbelliferone, pencordin, qianhucocumarin. ³³	Antitussive, expectorant.
N.A.	<i>Peucedanum graveolens</i> L.	Volatile oil (carvone), flavonoids, coumarins, xanthenes, triterpenes. ⁹⁹	Relieve intestinal spasms and cramps, increase milk production by nursing mothers.
China	<i>Phragmites communis</i> Trin.	Glycosides, protein, asparagin. ⁴⁹	As stomachic, antiemetic, antipyretic. Treat arthritis, jaundice, pulmonary abscess.

N.A.	<i>Phragmites australis</i> (Cav.) Trin.	Glycosides, protein, asparagin, ferulic acid, colxol, tricin, asparamide, coniferaldehyde, syringaldehyde, 4-hydroxyinnamic acid, vanillic acid, 4-hydroxybenzaldehyde, 2,5-dimethoxypara-quinone, polysaccharide, serotonin, tricin. ³⁰²	For toothache, earache, remedy for hiccoughs, seafood poisoning, parched throat with fever, acute bronchitis with mucus, acute gastritis with vomiting, urinary tract infections, blood or stones in urine, eruptive fevers like measles and chickenpox.
China	<i>Physalis alkekengi</i> L. var. <i>francheti</i> (Mast.) Makino	Physanols, physalien, zeaxanthin, glycolic acid, cryptoxanthin, luteolin, physoxanthin, mutaxanthin, tigloidine, auroxanthin, physalin A, B, and C, physalines, hystonin. ^{33,48}	Antibacterial, stimulate myocardial contraction, cause vasoconstriction, uterine contraction.
	<i>Physalis angulata</i> L.	Hystonin. ⁶⁰ Overdose may cause dizziness.	Antifebrile, laxative, diuretic, causing uterine contractions.
N.A.	<i>Physalis franchetti</i> L. <i>P. pubescens</i> L.	Flavonoids, plant sterols, vitamins A and C, alkaloids. ^{100,310}	A diuretic for urinary and arthritic problems including kidney and bladder stones, fluid retention, and gout.
China	<i>Picrasma quassioides</i> (D. Don) Benn.	2,4-Dichloro-6-aminopyridine, 4,5-dimethoxycanthin-6-one, 2,6-dimethoxy-p-benzo-quinone, methyl nigakinone, picrasmin, nigakihemiacetal A, nigakilactone A, nigakinone, quassin. ⁵⁰	Treat fever, stomachache.
N.A.	<i>Picrasma excelsa</i> (Sw.) Planch.	Quassinoid (quassin), alkaloids, coumarin (scopoletin), vitamin B ₁ . ⁹⁹	Strengthen digestive systems, increase bile flow, secretion of salivary juices, and stomach acid production.
China	<i>Pimpinella thellungiana</i> Wolff.	Ilungianin A, Ilungianin B. ^{50,220}	A stimulant, anodyne, hypotensive, treat choleraic affections and flatulence.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)			
Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Pimpinella anisum</i> L.	Anethole, creosol, coumarin, acetylinic, flavonoids, fatty oil, protein. ⁹⁹	Antispasmodic, carminative, diuretic, relieve gas pain.
China	<i>Pinus bungeana</i> Zucc. ex Endl. <i>P. densiflora</i> Sieb. et Zucc. <i>P. koraiensis</i> Sieb. et Zucc. <i>P. sylvestris</i> L. var. <i>mongolica</i> Litv. <i>P. tabulaeformis</i> Carr.	Essential oil, limonene, pinitol. ³³	Antitussive, antiasthmatic, antibacterial.
N.A.	<i>Pinus albicaulis</i> Engelm. <i>P. contorta</i> Dougl. ex. Loud. <i>P. mugo</i> Turra var. <i>pumilio</i> <i>P. palustris</i> Mill. <i>P. strobus</i> L.	Bishomophinolenic acid, resins, mallol, borneol acetate, tannins, vitamin A, vitamin C, galactose, alpha-pinenes, beta-pinenes, anthocyanin. ^{8,102}	Relieve fever, bronchial and nasal congestion, improve blood flow. Anthocyanin from bark has antioxidant activity, inhibits the enzymes that cause inflammation.
China	<i>Plantago asiatica</i> L. <i>P. depressa</i> Willd. <i>P. exaltata</i> Horn. <i>P. loureiri</i> Roem. et Schult. <i>P. major</i> L.	d-Xylose, l-arabinose, d-galacturonic acid, l-rhamnose, plantasan, plantenolic acid, plantagin, homoplantagin, aucubin, ursolic acid, hentriacontane. ⁴⁸	Diuretic, expectorant, intestinal infection, diarrhea caused by bacteria.
N.A.	<i>Plantago psyllium</i> L.	Mucilage, linoleic acid, oleic acid, palmitic acid. ^{100,154}	Demulcent, laxative, antidiarrhea.
China	<i>Platycladus orientalis</i> (L.) Franco.	Thujene, thujone, pinene, myricetin, caryophyllene, aromadendrin, quercetin, hinokiflavone, fenchone, amentoflavone. ⁴⁸	Antipyretic, astringent, diuretic, for dysmenorrhea, epistaxis, gonorrhea, metrorrhagia.

N.A.	<i>Platycladus occidentalis</i> L.	Catechin, gallo catechin, afzelechin, epicatechin, epigallocatechin, epiafzelechin, procyanidins, flavones, myricetin, 3-0-glucoside, neothujic acid, podophyllotoxin type lignins. ³⁰³	An expectorant for bronchial catarrh accompanied by heart weakness. Treat skin problems, vaccination, and menstruation.
China	<i>Polygala japonica</i> Houtt. <i>P. sibirica</i> L. <i>P. tatarinowii</i> Regel	Saponins, tenuidine, tenuifolin (prosenegenin). ^{28,33}	Stimulate bronchial secretions, antibacterial.
	<i>Polygala tenuifolia</i> Willd.	Onjisaponin A, onjisaponin B. ²⁴	Sedative, strengthen nervous system.
N.A.	<i>Polygala senega</i> L.	Triterpenoid saponins, phenolic acids, polygalitol, methyl salicylate, sterols. ^{99,103,291,292}	Treat rattlesnake bite, cough, bronchitis, asthma.
	<i>Polygala vulgaris</i> Thunb.	Triterpenoid saponins, volatile oil, gaultherin, mucilage. ⁹⁹	Treat respiratory disorders such as chronic bronchitis, bronchial asthma, convulsive coughs. A diuretic.
China	<i>Polygonatum chinense</i> Kunth. <i>P. cirrhifolium</i> Royle. <i>P. macropodium</i> Turcz. <i>P. odoratum</i> (Mill.) Druce var. pluriflorum (Miq.) Ohwi f. <i>P. officinale</i> All. <i>P. ovarifolium</i> Y. C. Chu <i>P. sibiricum</i> Delar. ex Redoute <i>P. stenophyllum</i> Maxim. <i>P. vulgare</i> Desf.	Convallarin, convallamarin, mucilage. ⁴⁹	Stimulate the appetite, increase peristalsis, slow the heart and raise the arterial tension, slow and deepen respiration, purgative.
N.A.	<i>Polygonatum multiflorum</i> (L.) All. <i>P. biflorum</i> (Walt.) Elliott	Saponins, flavonoids, vitamin A. ⁹⁹	A poultice to stimulate tissue repair. Treat tuberculosis, accelerate healing.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)			
Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Populus alba</i> L. <i>P. davidiana</i> Dode. <i>P. tomentosa</i> Carr.	Salicin, populin, benzoyl salicin, tannin, erisin, salicinase, salicortin, tremulacin, salireposide. ⁵⁰	Depurative, for colic, eczema, herpes, labialis, fever, dysuria, antiseptic, antiperiodic.
N.A.	<i>Populus balsamifera</i> L. <i>P. candicans</i> L.	Flavonoids, phenolic glycoside. ¹⁰²	Antiseptic, sore throats, dry irritable coughs.
	<i>Populus tremuloides</i> Michx.	Salicin, populin, tannins. ⁹⁹	Reduce fever, relieve pain, anti-inflammatory.
China	<i>Potentilla bifurca</i> L. <i>P. chinensis</i> Seringe <i>P. discolor</i> Bunge. <i>P. fragarioides</i> L. <i>P. freyaiana</i> Bornmuller	D-Catechin. ⁵⁰ This herb is toxic. ⁶⁰	Antibacterial, antiplasmodium, smooth muscle relaxation, gynecological bleeding.
N.A.	<i>Potentilla anserina</i> L.	Ellagitannins, flavonoids, choline. ⁹⁹	Gargle for sore throats, remedy for diarrhea.
	<i>Potentilla erecoa</i> (L.) Rauschel. <i>P. tormentilla</i> (L.) Rauschel.	Tannins, catechins, ellagitannins, phlobaphene. ⁹⁹	Gargle for throat infections, mouthwash for canker sores and infected gums.
China	<i>Primula sieboldii</i> E. Morren var. <i>patens</i> (Turcz.) Kitag. <i>P. vulgaris</i> L.	Primulagenin A, aegicerin, protoprimulagenin A. ⁴⁸	Relieve cough, throat infection.
N.A.	<i>Primula veris</i> L.	Triterpenoid saponins, flavonoids, phenols, tannins, volatile oil. ⁹⁹	For bronchitis, respiratory tract infections, insomnia, anxiety, rheumatic disorder.

China	<i>Pulsatilla ambigua</i> Turcz. ex Pritz. <i>P. chinensis</i> (Bunge.) Regel	Protoanemonin, anemonin, okinalin, okinalein, ranuneulin, saponins. ³³	Antiamebial, antibacterial, treat amebic dysentery.
N.A.	<i>Pulsatilla vulgaris</i> Mill.	Lactone protoanemonin, triterpenoid saponins, tannins, volatile oil. ⁹⁹	For cramps, menstrual problems, distress. Treat spasmodic pain of the reproductive system.
China	<i>Quercus acutissima</i> Carr. <i>Q. dentata</i> Thunb. <i>Q. liaotungensis</i> Koidz. <i>Q. mongolica</i> Fisch. ex Turcz. <i>Q. variabilis</i> Blume	Lignin, cellulose, protein, pentosan, galactan. ⁵⁶	Promote absorption of tuberculous nodules, remedy for diarrhea, hypertrophy of the gastrointestinal tract, root makes a cleansing dressing for foul sores.
N.A.	<i>Quercus robur</i> L.	Tannins, cutins, suberins. ⁹⁹	Treat sore throat, tonsillitis, an astringent.
China	<i>Ranunculus chinensis</i> Bung.	Protoanemonin, anemonin, ranunculin. ⁴⁸	Relieve swelling, asthma, liver disorders, toothache, night blindness.
	<i>Ranunculus japonicus</i> Thunb. <i>R. sarmentosa</i> Adams	Anemonin, protoanemonin. ⁵⁰	Antitumor, sedative, bactericidal against bacillae of diphtheria, staphylococcus.
	<i>Ranunculus sceleratus</i> L.	Ranunculin, anemonin, 5-hydroxytryptamine, serotonin, protoanemonin, pyrogallol tannin. ^{48,50} This herb is toxic.	Relieve swelling, pain, antitoxin, treat lymphatic gland disorders, antirheumatic.
	<i>Ranunculus ternatus</i> Thunb.	Tannins, phenolic acids, volatile phenols, non-volatile terpenic compounds, volatile carbonyl. ^{60,223}	Treat abscesses.
N.A.	<i>Ranunculus ficaria</i> L.	Anemonin, tannins, saponins, volatile oil. ⁹⁹	Diuretic, anti-inflammatory, a tonic for digestive system, kidney, and urinary stones.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)			
Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Ranunculus occidentalis</i> Nutt.	Anemonin. ¹⁰²	A stimulant, externally to relieve chronic sciatica.
China	<i>Rauvolfia verticilata</i> (Lour.) Baill.	Reserpine, beta-sitosterol, aricine, vellosimine, peraksine, serpentine, robinin. ^{33,39}	Treat hypertension, psychosis, schizophrenia.
N.A.	<i>Rauvolfia serpentina</i> (L.) Benth.	Indole alkaloids, reserpine, rescinnamine, ajmaline, yohimbine. ⁹⁹	Regulate hearbeat, treat high blood pressure and anxiety. Sedative and depressant effect on sympathetic nervous system.
China	<i>Rhamnus davurica</i> Pall. <i>R. parvifolia</i> Bunge.	Emodin, chrysophanol, kaempferol, rhamnodiastase, aloe-emodin. ^{48,308} This herb is slightly toxic.	Insecticidal, treat respiratory infection, cough, improve bowel movement.
N.A.	<i>Rhamnus catharticus</i> L. <i>R. frangula</i> L. <i>R. purshianus</i> L.	Anthraquinone glycosides, phenolic flavonols, pectin, vitamin C, glucofrangulin A, B, frangulin A, B, emodin, chrysophanol, physcion. ^{100,103,107}	Laxative, diuretic, constipating, astringent, antibacterial, purgative, digestive complaints.
China	<i>Rheum koreanum</i> Nakai <i>R. officinale</i> Baill. <i>R. palmatum</i> L. <i>R. undulatum</i> L.	Anthraquinones, chrysophanol, emodin, physcion, aloe-emodin, rhein, chrysophenol, rheum tannic acid, gallic acid, calechin, bianthraquinonyl, sennosides (<i>R. undulatum</i> also contains rhaponticin). ^{1,33} This herb may be toxic.	Potent laxative, antibacterial, anthelmintic, anticancer, stimulate the large intestine and increase the movement of luminal contents toward the anus, resulting in defecation. Antispasmodic, choleric, hemostatic, diuretic, lower blood pressure, lower cholesterol level.

N.A.	<i>Rheum tanguticum</i> L.	Cinnamic acid, gallic acid, emodin, rhein, rhein anthrones, catechin, anthraquinone compounds, tannin. ^{99,100,107}	Treat diarrhea, stimulate appetite, chronic constipation, laxative, cathartic.
China	<i>Rhodiola elongata</i> (Ledeb.) Fisch. & Meyer	p-Tyrosol, rhodioloside, flavonoids. ⁴⁸	A tonic, improve heart muscle, aphrodisiac.
N.A.	<i>Rhodiola rosea</i> (L.) Scop.	Rhodioloside, flavanol glycosides. ^{103,293}	Improve learning and memory and reduce stress, anticancer, stimulate the central nervous system.
China	<i>Rhododendron sinensis</i> Sw.	Andromedotoxin, veratrine alkaloids. ⁴⁹ This herb is toxic.	Sedative, analgesic, anesthetic in rheumatism.
	<i>Rhododendron anthopogon</i> G. Don	Essential oils, saponins, quercetin, gossypetin. ³³	Antitussive, antiasthmatic.
	<i>Rhododendron dauricum</i> DC	Germacone, flavonoid, farrerol, feriol, quercetin, myricetin, anromedotoxin, rhodotoxin. ³³	Antitussive, antiasthmatic.
	<i>Rhododendron molle</i> (Blume) G. Don	Rhomotoxin. ³⁷ This herb is mildly toxic.	Treat tachycardia, palpitations, hypertension.
	<i>Rhododendron mucronatum</i> G. Don	Essential oil, germacone, farreol, grayanotoxin, gossypetin, azaleatin, 5-methyl kaempferol, 5-methyl myricetin, syringic acid, dihydroquercetin, coumarins, phenolic acid, p-hydroxybenzoic acid, protocatchuic acid, vanillic acid. ⁴⁸	Treat cough, asthma, headache, respiratory infection.
N.A.	<i>Rhododendron maximum</i> L.	No information is available in the literature. Large quantity may be toxic.	Used as a tonic for the kidneys and itchiness.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Rhus chinensis</i> Mill.	Gallotannic acid, gallic acid, resin, wax, polysaccharides. ³³	Treat chronic intestinal infections, hematochezia, proctitis, skin infections, bleeding wounds.
	<i>Rhus semialata</i> Murr.	Tannin. ⁴⁹	As an astringent, styptic, treat diarrhea, hemorrhage.
	<i>Rhus verniciflua</i> Stokes	Resinous oil urushiol. ⁴⁹ This herb may be toxic.	As hemolytic, emmenagogue, vermifuge.
N.A.	<i>Rhus radicans</i> L. <i>R. glabra</i> L. <i>R. toxicodendron</i> L.	Toxicodendrol, urushiol, 3-n-pentadecylcatechol. ¹⁰²	Sympathetic stimulant, restore nerve function, facial neuritis, ulcerated sores on the lips, mouth, and nasal membrane.
China	<i>Ribes mandshurica</i> (Maxim.) Kom.	Citric acid, malic acid, organic acids. ⁴⁸	Treat cold.
N.A.	<i>Ribes nigrum</i> L.	Anthocyanosides, antiprotease, tannins, vitamins B ₁ , B ₂ , C, P, citric acid, pectin. ¹⁰²	Diuretic and diaphoretic properties, urinary infection, rheumatism and diarrhea.
	<i>R. lacustre</i> (Pers.) Poir.	Anthocyanosides. ¹⁰²	Infusion of leaves to lessen the pain associated with female menstrual cycle.
China	<i>Rorippa indica</i> (L.) Hiern. <i>R. islandica</i> (Oeder) Borbas	Alpha-phenylethylisothiocyanate, gluconasturtin, rorifone, rorifamide. ³³	Antitussive, expectorant, diuretic, detoxicant.
N.A.	<i>Rorippa nasturtium-aquaticum</i> (L.) Hayek.	Raphanolide, raphanol, diastase, ferment, gluconasturin, bitters, essential oils, phenyl ethyl, vitamins, niacin. ³⁰³	A blood builder, antidiuretic diuretic activities, lymphatic and digestive cleansing, treat prostate irritation, vaginal pruritis, chronic skin irritations.

China	<i>Rosa acicularis</i> Lindl.	Vitamins, gallo catechin, epigallocatechin, epicatechin gallate, catechin, epicatechin, fatty acids. ⁴⁸	Stop vomitting blood, stomachache, relieve pain caused by nerve system, menstruation.
	<i>Rosa chinensis</i> Jacq.	Essential oils. ⁴⁹	For arthritis, boils, cough, hematuria, rheumatoid joint pains, circulatory stimulant.
	<i>Rosa multiflora</i> Thunb.	Ascorbic acid, multiflorin, quercetol, kaempferol-3-glucoside, catechin. ⁵⁰	Anodyne, diuretic, laxative.
	<i>Rosa rugosa</i> Thunb.	Essential oils, l-citronellol, citral, geraniol, nerol, eugenol, cyanin, n-phenylethyl alcohol, citrol, nonyl aldehyde, l-linalool, l-p-menthene, nonacosane, menthene, bensaldehyde, phenylacetic acid, rosenoxide, paeonidin. ^{48,50}	Promote blood circulation, treat abscesses, blood diseases, dyspepsia, hematemesis, hepatitis, stomachache.
N.A.	<i>Rosa canina</i> L. <i>R. damascena</i> Mill. <i>R. gallica</i> L.	Malic acid, citric acids, pectin, geraniol, citronellol, vitamins C, B complex. ^{102,107,160}	Astringent, mild diuretic and laxative effect. Excellent source of vitamin C when it's fresh.
China	<i>Rubia akane</i> Nakai	Alizarin, rubrierythrinic acid, purpurin. ⁸⁵	Treat rheumatism.
	<i>Rubia chinensis</i> Regel & Maack <i>R. cordifolia</i> Thunb. <i>R. cordifolia</i> L. f. pratensis (Maxim.) Kitag. <i>R. mungista</i> Roxb. <i>R. sylvatica</i> (Maxim.) Nakai	Rubierythrinic acid, alizarin, purpurin, pseudopurpurin, munjistin. ^{33,49}	Hemostatic, shorten the blood clotting time, antibacterial, antitussive, stimulate uterine contractions.
N.A.	<i>Rubia tinctorum</i> L.	Anthraquinone derivatives, ruberythric acid, alizarin, purpurin, indoid, asperuloside, resin, calcium. ⁹⁹	Treat kidney and bladder stones.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Rubus coreanus</i> Miq.	Beta-sitosterol, stigmasterol, campesterol, cholestanol, ursolic acid, flavonoids. ⁴⁸	Diuretic, aphrodisiac, liver infection, joint infection caused by arthritis.
	<i>Rubus parvifolius</i> L.	Flavonoids. ⁴⁸	Treat fever, throat pain, blood vomiting, liver and intestine infection.
N.A.	<i>Rubus chamaemorus</i> L.	Tocopherol, benzoic acid, salicylic acid, ascorbic acid, vitamin C. ^{102,275}	Laxative, tonic, treat cough and fever.
	<i>Rubus fruticosus</i> L.	Tannins, organic acids, vitamin C. ¹⁵⁴	Mild astringent, antiseptic, antifungal, diuretic and tonic properties.
	<i>Rubus idaeus</i> L.	Tannins, vitamin C, anthocyanins, pectin, flavonoids, gallic acid. ⁹⁹	Treat diarrhea, antispasmodic.
China	<i>Rumex acetosa</i> L. <i>R. stenophyllus</i> Ledeb. var. <i>ussuriensis</i> (A. Los.) Kitag.	Vitexin, quercetin-3-galactoside, violaxanthin, vitamin C, emodin, chrysophanein, chrysophanol, nepodin, hyperin, physcion. ^{48,50}	Homeopathically for cramps, hemorrhage, sore throat, esophagitis, diuretic, treat blood vomiting.
	<i>Rumex crispus</i> L.	Chrysophanein, nepodin. ⁴⁸	Treat ovarian bleeding, eczema, tuberculosis, sexually transmitted diseases.
N.A.	<i>Rumex obtusifolia</i> L.	Oxalates, anthraquinones, phanol, physcion, tannic acid. ^{100,102,118}	Antiseptic, laxative, rheumatic pains.
China	<i>Salix babylonica</i> L. <i>S. matsudana</i> Koidz. <i>S. microstachya</i> Turcz. ex Trautv.	Saligenin glucoside, iodine, pyrocedol, saponins. ³³	Antigoiter, antibacterial, treat tubercule bacilli.

N.A.	<i>Salix alba</i> L. <i>S. discolor</i> Muhlenb.	Salicin, tannins, phenolic, flavonoid, glycosides, salicortin, triandrin. ^{99,102}	Antipyretic, diaphoretic, antirheumatic, analgesic.
China	<i>Salvia chinensis</i> L. <i>S. pogonocalyx</i> Hance <i>S. przewalskii</i>	Scutellarin. ⁶⁰	Treat abdominal pain, arthritis, inflammations, metrorrhagia, uteritis, women's diseases.
	<i>Salvia coccinea</i> L.	Saluianin. ⁵⁶	Stop bleeding, cooling effect, stimulate sweating, relieve swelling.
	<i>Salvia miltiorhiza</i> Bunge.	Tanshinone, cryptotanshinone, isocryptotanshinone, miltirone, tanshinol, salvio. ³³	Treat angina pectoris, cerebral atherosclerosis, diffusive intravascular clotting, thrombophlebitis.
	<i>Salvia plebeia</i> R. Brown	Flavonoids, homoplantagin, hispidulin, eupafolin, essential oils. ⁴⁸	Diuretic, vermifuge, astringent.
N.A.	<i>Salvia clevelandii</i> (A. Gray) Greense <i>S. divinorum</i> Epl. & Jutiva	No information is available in the literature.	Emetic, hallucinogenic, psychotropic. ¹⁰⁰
	<i>S. officinalis</i> L.	Thujone, borneol, cineole, camphor, salvin, tannin, fumaric acid, malic acid, oxalic acid. ^{100,107,161}	Carminative, lower fever, antiseptic, antifungal, astringent, diuretic, antidiarrheal, antispasmodic.
China	<i>Sambucus coreana</i> Kom. & Klob. Alisova <i>S. latipinna</i> Nakai <i>S. manshurica</i> Kitag. <i>S. peninsularis</i> Kitag. <i>S. sieboldiana</i> (Miq.) Blume ex Graebner var. <i>miquelii</i> (Nakai) Hara <i>S. williamsii</i> Hance	Chlorogen acid. ⁶⁰	Diaphoretic, diuretic, carminative, treat arthralgia, fever.
	<i>Sambucus formosana</i> Nakai	Alpha-amyirin palmitate. ⁵⁶	Detoxicant, stop swelling, diuretic, relieve pain.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Sambucus nigra</i> L. <i>S. canadensis</i> L.	Flavonoids, phenolic, triterpenes, sterols, cyanogenic glycosides, vitamins A, C. ⁹⁹	Increase sweating, diuretic, anti-inflammatory.
	<i>Sambucus racemosa</i> L.	Rutin, tannins, cyanogenic, glucans, baldrianic acid. ¹⁰²	Antiulcer, antimutagens, anticoagulant.
China	<i>Sargassum pallidum</i> (Harv.) Setch.	Odine, alginic acid, algin, iron, potassium. ³³	Antigoiter, anticoagulant.
N.A.	<i>Sargassum officinalis</i> L. <i>S. fusiforme</i> L.	No information is available in the literature.	For goiter, tuberculosis of lymph nodes, cysts, bronchitis, edema, hydrocele. ³⁴⁵
China	<i>Saussurea japonica</i> (Thunb.) DC	Saussurine, phene, phellandrene. ⁴⁹	As a stomachic.
N.A.	<i>Saussurea lappa</i> Clarke	Terpenes, sesquiterpenes, aplotaxene, saussurine, resin. ⁹⁹	Depress the parasympathetic nervous system. It has tonic, stimulant, and antiseptic properties.
China	<i>Scutellaria baicalensis</i> Georgi	Baicalein, baicalin, wogonin, beta-sitosterol, wognoside, 7-methoxy-baicalein, 7-methoxynorwogonin, skullcap flavones. ³³	Antibacterial, antiviral, antipyretic, anti-inflammatory, antitumor.
	<i>Scutellaria formosana</i> Brown	Berberine, baicalin. ^{54,233,234}	Relieve swelling, pain, treat cold, wounds, liver infection.
N.A.	<i>Scutellaria lateriflora</i> L.	Scutellarin, baicalin, baicalein, wogonin, benzoic acid, catalpol, tannins, beta-sitosterol, camphesterol, stigmasterol. ^{99,102,163}	Sedative and antispasmodic, prevent epileptic seizures, tonic, antispasmodic, antiallergic.

China	<i>Sedum aizoon</i> L.	Sedoflorin, sedocaulin, sedocitrin, sedoheptulose, arbutin. ^{33,48}	Hemostatic, remove blood stasis.
	<i>Sedum formosanum</i> N. E. Brown	Triterpenes, amyrenone, amyrenol. ⁵⁴	Treat diabetes, relieve swelling, pain, digestion, diarrhea.
	<i>Sedum lineare</i> Thunb.	Sedoheptose, glucose, fructose. This herb is slightly toxic. ⁵⁰	Applied locally to burns and scalds, treat throat infection, diabetes.
	<i>Sedum sarmentosum</i> Bunge.	Sarmentoslin, dihydro-N-methyl-isopelletierine, N-methyl-2-(β -OH-propyl) piperidine, N-methyl-isopelletierine, dl-methylisopelletierine, dihydroisopelletierine. ^{33,48,50}	Antipyretic, detoxicant, diuretic, treat hepatitis.
	<i>Sedum erythrostichum</i> Miq. <i>S. kamtschaticum</i> Fisch <i>S. verticillatum</i> L.	Sedoheptulose. ⁴⁸	Detoxicant, relieve swelling, stop bleeding and pain.
N.A.	<i>Sedum acre</i> L.	Sedacrine, n-methyl anabesine, sedinine, sedacryptine, flavanol glycosides. ^{102,294}	Insomnia, depressant, hemorrhoidal pain, treat excessive menstrual flow during menopause.
China	<i>Senecio argunensis</i> Turcz.	Lavoxanthin, macrophylline, cynarin, chlorogenic acid, chrysanthemaxanthin, sarracine. ^{33,48}	Antibacterial, antiplasmodial, treat acute bacterial dysentery and bronchitis.
	<i>S. campestris</i> (Retz.) DC	Alkaloids. ⁴⁸ This herb may be toxic.	Depress leukemia, detoxicant, diuretic, insectisidic.
	<i>S. cannabifolius</i> Lessing	p-Hydroxyacetophenone, arbutin. ⁴⁸	Treat heart disease, respiratory infection, sexually transmitted diseases.
	<i>S. vulgaris</i> L.	Senecionine, inulin. ⁵⁸	Used in ointment on hemorrhoids and swellings, lower blood pressure, laxative.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Senecio aureus</i> L.	Seneciphyline, jacoline, pyrrolizidine, senecionine, tannins, resin. ¹⁶⁴	A poultice, ointment, or lotion to relieve pain and inflammation.
China	<i>Silene jensisensis</i> Willd.	6,8-di-C-Galactopyranosylapigenin, 6-C-galactopyranosyl-isoscutellarein, essential oil. ⁸⁴	For fever, kala-azar, malaria.
N.A.	<i>Silene ocaulis</i> L. <i>S. virginica</i> L.	Spinasterol, ecdysterones, 22-dihydrospinasterol, 2-(6'-cinnamoyl) glucosido-methyl-4H-pyran-4-one. ³⁰²	Anabolic, tonic, adaptogenic effects.
China	<i>Smilacina japonica</i> A. Gray	No information is available in the literature.	For arthritis, relieve swelling and pain, aphrodisiac, regulate monthly period, breast gland infection.
N.A.	<i>Smilacina stellata</i> (L.) Desf.	No information is available in the literature.	
China	<i>Smilax china</i> L. <i>S. nipponica</i> Miq. subsp. manshurica Kitag. <i>S. riparia</i> DC subsp. ussuriensi (Regel) Kitag. <i>S. sieboldii</i> Miq.	Crystalline saponin smilacin, tannin, resin, tigogenin, neotigogenin, laxogenin. ^{48,49}	As alternative, diuretic in syphilis, gout, skin disorders, rheumatism.
N.A.	<i>Smilax aristolochiifolia</i> Mill.	Steroidal saponins, phytosterols (beta-sitosterol), starch, resin, sarsapic acid, minerals. ⁹⁹	Anti-inflammatory, relieve eczema, psoriasis, and itchiness. Treat rheumatism, rheumatoid arthritis, and gout. It has progesterogenic action.

China	<i>Solanum aculeatissimum</i> Jacquin	Solasonine, beta-solamargine, solasurine. ⁵⁵	For cough, asthma, diuretic, pain.
	<i>Solanum biflorum</i> Loureiro	No information is available in the literature.	Detoxicant, for cough, swelling, dog bites.
	<i>Solanum capsicastrum</i> Link.	Solanocapsin. ⁵⁵	With cooling effect, relieve swelling, treat liver inflammation.
	<i>Solanum incanum</i> L.	Beta-sitosterol, D-glucose, ursolic acid, alkaloids, solasodine, solamargine. ⁵⁵	Treat liver inflammation, lymphatic gland, a detoxicant.
	<i>Solanum indicum</i> L.	Diosgenin, solanidine, solanine, solasodine, alkaloids, carbohydrases, maltase, saccharase, melibiase. ⁵⁰	Antidote for poison, for urinary disease.
	<i>Solanum lyratum</i> Thunb. <i>S. melongena</i> L.	Trigonelline, stachydrine, choline, solanine, nasunin, shisonin, delphinidin-3-monoglucoside, adenine, imidazolyloethylamine, solasodine, arginine glucoside. ⁴⁸	For arthritis, respiratory disorder, swelling, cough, diarrhea, blood in the urine.
	<i>Solanum nigrum</i> L.	Solanigrines, saponins. ³³	Antibacterial, diuretic, treat mastitis, cervicitis, chronic bronchitis, dysentery.
	<i>Solanum pseudo-capsicum</i> L.	Solanocapsine. ⁵⁵	A detoxicant, relieve pain. Treat tuberculosis, pneumonia.
	<i>Solanum verbascifolium</i> L.	Solasonine. ⁵⁴	Treat dysentery, intestinal pain, and fever.
N.A.	<i>Solanum dulcamara</i> L.	Steroidal alkaloids, solasodine, soldulcamaridine, steroidal saponins, tannins. ⁹⁹	Treat eczema, itchiness, psoriasis, and warts. It relieves asthma, chronic bronchitis, and rheumatic conditions.
	<i>Solanum tuberosum</i> L.	Vitamins A, B ₁ , B ₂ , C, and K, minerals, atropine alkaloids. ⁹⁹	Potato juice treats peptic ulcers, relieve pain and acidity.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Solanum xanthocarpum</i> L.	Steroidal alkaloids (solanocarpine). ⁹⁹	Treat gas and constipation, throat and gum disorder. It is anticongestive.
China	<i>Sorbus alnifolia</i> (Sieb. & Zucc.) K. Koch	Fatty acids, starch, essential oils, flavonoids, isochlorogenic acid, parasorbic acid. ⁴⁸	For stomach infection and ache, swellings, cough, vitamin deficiencies.
N.A.	<i>Sorbus aucuparia</i> L.	Tannins, vitamin C, pectin, organic acids. ¹⁰²	Astringent for hemorrhoids and diarrhea, source of vitamin C.
China	<i>Spiraea salicifolia</i> L. <i>S. salicifolia</i> L. var. <i>grosseserrata</i> Liou & Liou fil. <i>S. salicifolia</i> L. var. <i>oligodonta</i> Yu	Flavonoids, carotenoids, vitamin C, alkaloids, seed oil. ³³	Diuretic, treat cough, pain, monthly period, constipation.
N.A.	<i>Spiraea ulmaria</i> L.	Salicylates, flavonol glycosides, heliotropin, vanillin, tannins. ^{99,100,118}	Laxative, treat headache.
China	<i>Stachys chinensis</i> Bunge. ex Benth. <i>S. baicalensis</i> Fisch. ex Benth. <i>S. baicalensis</i> Fisch. ex Benth. var. <i>angustifolia</i> Honda <i>S. japonica</i> Miq.	Coumarin, alkaloids, stachydrine chloride. ⁴⁸	Treat cold, influenza.
N.A.	<i>Stachys officinalis</i> (L.) Trev.	Tannins, stachydrine, betonicine, betaine, choline. ^{99,100,107}	Stop bleeding from open wound, antispetic.
China	<i>Strophanthus divaricatus</i> (Lour.) Hook. & Arn.	Divaricoside, divostroside, sinoside, sinostroside, caudoside, caudostroside, sarmutoside. ³³ This herb is toxic.	Cardiac stimulating action causing an increase of myocardial contractility, slow the heart beat.

N.A.	<i>Strophanthus gratus</i> (Wallich & Hook. ex Benth.) Ball. <i>S. kombe</i> L.	Cardiac glycosides ⁹⁹	Treat snake bite, delay blood clotting. A mild heart tonic, improve heart efficiency.
China	<i>Styrax tonkinensis</i> Pierre	Sumaresinolic acid, coniferyl cinnamate, styracin, vanillin, alpha-phenylpropyl cinnamyl cinnamate, balsamic acid. ^{33,50}	As an aromatic stimulant, for aphrodisiac, an astringent.
	<i>Styrax suberifolus</i> Hook. et Arnott.	No information is available in the literature.	Stomachache, pain caused by arthritis.
N.A.	<i>Styrax benzoin</i> Dryander	Cinnamic, benzoic, sumaresinolic acid esters, benzoic acid, benzaldehyde, vanillin. ⁹⁹	Antiseptic, astringent. Externally for wounds and ulcers, internally to settle cramps, stimulate coughing, disinfect the urinary tract.
China	<i>Swertia diluta</i> (Turcz.) Benth. et Hook. f.	Swertiamarin, swertisin, methyl-bellidifolin, homoorentin, methyl-swertianin, isovitexin, bellidifolin, decussatin, swertifranchese. ³³	Choleretic, improve hepatic function. Treat acute icteric hepatitis, chronic liver disease.
	<i>Swertia pseudochinensis</i> Hara	Swertiamarin, swertisin, methyl-bellidifolin, homoorentin, methyl-swertianin, isovitexin, bellidifolin, decussatin, swertifranchese. ³³	Choleretic, improve hepatic function. Treat acute icteric hepatitis, chronic liver disease.
N.A.	<i>Swertia chirata</i> L.	Xanthones, indoids, amarogentin, alkaloids, flavones. ⁹⁹	A tonic, antimalarial, stimulate appetite, ease stomach pain, reduce fever.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Syzygium cuminii</i> (L.) Skeels	Betulinic acid, eugianin, friedelin, epifriedelanol, beta-sitosterol, acetyl oleanolic acid, ellagic acid, myricetin, cyanidin rhamno-glucoside, petunidin glucoside, maluidin glucoside, jambolin. ⁵⁷	Cooling effect, relieve itchiness, stop bleeding, infection, diarrhea.
N.A.	<i>Syzygium aromaticum</i> (L.) Merr.	Sesquiterpenes, eugenol, tannins, gum. ³¹⁴	For gastroenteritis and intestinal parasites.
China	<i>Tagetes erecta</i> L. <i>T. patula</i> L.	Alpha-terthienyl, d-limonene, l-linalool, tagetone, n-nonyl aldehyde. ⁵⁰	Treat sores and ulcers, cold, conjunctivitis, cough, mastitis, mumps.
N.A.	<i>Tagetes minuta</i> L. <i>T. lucida</i> Cav.	Coumarin derivatives, resin, gallic acid, tannins, glucose, pectin, gum. ¹⁰⁷	For diarrhea, indigestion, nausea, externally for smooth muscles, scorpion bites, and to remove ticks.
China	<i>Taxus cuspidata</i> Sieb. et Zucc. <i>T. chinensis</i> (Pily) Rehd. <i>T. cuspidata</i> Sieb. et Zucc. <i>T. yunnanensis</i> Cheng et L. K. Fu	Taxol, baccatin, cephalomannine, 10-deacetyl baccatin, yunnanxana, abeotaxanes, taxinine E. ³³	Antineoplastic, anticancer, treat ovarian carcinoma.
N.A.	<i>Taxus x media</i> Rehd. <i>T. brevifolia</i> Nutt.	Taxol, resin. ^{103,295,296}	Treat cancer, gout, and rheumatism, arthritis.
China	<i>Tephrosia purpurea</i> Persoon	Rotenone, degueline, tephrosin, rutin, quercetin glucoside. ⁵⁷	Used as a cordial and a stomachic, a emmenagogue.
N.A.	<i>Tephrosia virginiana</i> (L.) Pers.	Deguelin, dehydrorotenone, rotenone, tephrosin. ¹⁰⁰	For alopecia, cholecystosis, cough, syphilis, bladder trouble.

China	<i>Thalictrum aquilegifolium</i> L. var. <i>sibiricum</i> Regel & Tiling <i>T. baicalense</i> Turcz. <i>T. baicalense</i> Turcz. f. <i>levicarpum</i> Tamura <i>T. fauriei</i> Hayata <i>T. petaloideum</i> L. <i>T. petaloideum</i> L. var. <i>supradecompositum</i> (Nakai) Kitag. <i>T. simplex</i> L.	Flavonoids, fetidine, phetidine, thalfoetidine, thalpine, thalpinine, rhalidasine, hernandezine, thelic simidine, oxypurpureine, berbamine, isotetrandrone, oxyacanthine, isothalidenzine, glaucine, berberine, palmatine, jatrorrhizine, coptisine, protopine, cryptopine, alpha-allocriptopine, thalidezine. ^{48,53}	Anticancer activity, treat fever, nausea, thirst, hemorrhages, and conjunctivitis.
	<i>Thalictrum ichangense</i> Lecoyer ex Oliver <i>T. glandulissimum</i> DC	Berberine, palmatine, jatrorrhizine, talictrine, thalidasine, thalicarpine, saponaretin. ³³	Antibacterial, treat influenza, childhood fevers, measles, malaria.
N.A.	<i>Thalictrum dasycarpum</i> Fisch. & Ave-Lall. <i>T. occidentale</i> A. Gray	Thalidasine, thalicarpine, thalisopavine, corypalline, norargemonine, <i>trans</i> -5, <i>cis</i> -9-octadecadienoic acid, dasycarponin, bis-norargemonine, L-laudanidine, <i>trans</i> -5-hexadecenoic acid. ^{302,333}	A tumour inhibitor, relieve dizziness and ear problems.
China	<i>Thuja chinensis</i> Hort. <i>T. koraiensis</i> Nakai <i>T. orientalis</i> L.	Thujene, thujone, fenchone, myricetin, caryophyllene, aromadendrin, quercetin, pinene, hinokiflavone, amentoflavone. ⁴⁸	Antipyretic, astringent, diuretic, for dysmenorrhea, epistaxis, gonorrhea, metrorrhagia.
N.A.	<i>Thuja occidentalis</i> L.	Thujone, flavonoids, wax, mucilage, tannins. ⁹⁹	Antiviral, treat warts and polyps. It induces menstruation.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
China	<i>Thymus amurensis</i> Klovov <i>T. disjunctus</i> Klovov <i>T. kitagawianus</i> Tscherneva <i>T. komarovii</i> Sergievskaja <i>T. przewalskii</i> (Kom.) Nakai <i>T. quinquecostatus</i> Celakovsky	Scutellarein heteroside, luteolin-7-glucoside, apigenin, volatile oils, carvacrol, p-cymene, p-terpinene, alpha-terpineol, zingiberene, borneol, ursolic acid, thymol. ⁴⁸	Treat high blood pressure, stomachache, intestinal infection, cough, digestion, diarrhea.
N.A.	<i>Thymus capitatus</i> L. <i>T. citriodorus</i> (Pers.) Schreb. <i>T. praecox</i> Opiz. <i>T. pulegioides</i> L. <i>T. serpyllum</i> L. <i>T. vulgaris</i> L.	Thymol, tannins, carvacrol, saponins, apigenin, luteolin. ^{99,100,107}	Antispasmodic, antitussive, relieve coughing.
China	<i>Tilia mandshurica</i> Rupr. & Maxim. <i>T. amurensis</i> Rupr. <i>T. mongolica</i> Maxim.	Flavonoids, essential oils. ⁴⁸	Promote sweating, bactericidal, treat cold, kidney infection, throat infection.
N.A.	<i>Tilia cordata</i> Mill. <i>T. europaea</i> L.	Mucilage, tannins, flavonoid, caffeic acid, taraxerol, tiliadine, vanillin, phytosterols, mucilage. ^{99,100}	Diaphoretic, antispasmodic, diuretic, mild sedative.
China	<i>Trifolium pratense</i> L.	Phytoestrogens, genistein, daidzein, formononetin. ^{33,48}	Stimulating effect on female reproductive organs.
N.A.	<i>Trifolium incarnatum</i> L.	Flavonoids, salicylic acid. ¹⁵⁴	Treat skin conditions, spasmodic coughs.
	<i>Trifolium pratense</i> L.	Tannins, phenolic glycosides, p-coumaric acid, silicic acid, caffeic acid, salicylic acid. ^{100,102}	Remedy for sore throat, colds, coughs, bronchitis, diarrhea, chronic skin conditions.

China	<i>Trillium camschatcense</i> Ker-Gawler	Trillin, trillarin, diosgenin, cyasterone, ecdysterone. ⁴⁸	Improve blood circulation, detoxicant, treat headache, high blood pressure, stop bleeding.
N.A.	<i>Trillium erectum</i> L.	Saponins (trillin), tannin, resin, fixed oil, volatile oil. ⁹⁹	For heavy menstrual or intermenstrual bleeding, treat bleeding associated with uterine fibroids.
China	<i>Ulmus campestris</i> L. <i>U. macrocarpa</i> Hance <i>U. pumila</i> L.	Butyric acid, capric acid, hexylenaldehyde, lipase, phlobaphene, phytosterol, sitosterol. ⁵⁰	For urinary calculi, diuretic, febrifuge.
N.A.	<i>Ulmus rubra</i> Muhl. <i>U. procera</i> L.	Tannins, mucilage, cholesterol, campesterol, beta-sitosterol, pentoses. ^{99,100}	Astringent, demulcent, anti-inflammatory.
China	<i>Uncaria hirsuta</i> Havil <i>U. rhynchophylla</i> Miq.	Rhynchophylline, corynoxene, iso-rhynchophylline, isocorynoxene, corynantheine, hirsutine, hirsuteine. ³³	A sedative, anticonvulsive, lower blood pressure, it has a triphasic effect. Treat childhood epilepsy.
N.A.	<i>Uncaria gambir</i> (Hunter) Roxb.	Rhynchophylline, corynoxene, hirsutine, isorhynchophylline, nicotinic acid, catechin. ^{297,298,299,313}	Lower blood pressure, protect the liver from infection. An astringent.
China	<i>Vaccinium bracteatum</i> Thunb. <i>V. vitis-idaea</i> L.	6-o-acetyl-arbutin, arbutin, avicularin, 2-o-caffeoylarbutin, d-catechol, l-epicatechol, d-gallocatechol, hyperin, hyperoside, sioquercitrin, salidroside, tannin, ursone. ⁵⁰	For gonorrhea.
N.A.	<i>Vaccinium macrocarpon</i> Ait.	Anthocyanosides, hippuric acid, vitamins C, A. ^{103,177,178,180,300}	Prevents urinary infection and stones, an antioxidant, effect on clogged heart arteries.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Vaccinium myrtilloides</i> Michx. <i>V. myrtillus</i> L. <i>V. oreophilum</i> Rydb.	Tannins, arbutin, iridoids, insulin, anthocyanosides, myrtocyan. ^{103,300,301}	Strengthening cardiovascular system, improve vision, treat diabetes, digestive disorder, urinary disorder, an antioxidant.
China	<i>Valeriana alternifolia</i> Bunge. <i>V. amurensis</i> P. Smiru. ex Kom. <i>V. fauriei</i> Briq. <i>V. fauriei</i> Briq. var. <i>dasycarpa</i> Hara <i>V. subbipinnatifolia</i> A. Baranow	Bornyl isovalerate, isovaleric acid, borneol, camphene, pinene, d-terpineol, l-limonene, pyrrol- α -methyl ketone, alpha-fenchene, myrcene, phellandrene, l-caryophyllene, erpinene, terpinolene, eremophilene, selinene, cadinene, valerianol, valerenone, myrtenol, bisabolene, chatinine, caffeic acid. ⁴⁸	Antispasmodic, aphrodisiac, emmenagogue, stimulant, sudorific, backache, cramps, influenza, nausea, numbness.
N.A.	<i>Valeriana officinalis</i> L.	Essential oil, valtrate, valepotriates, bornyl esters, alkaloids, isovaltrate. ^{99,100}	Sedative for nervous disorders, antispasmodic.
China	<i>Veratrum dahuricum</i> (Turcz.) Loes <i>V. formosanum</i> Loesener	Jervine, pseudojervine, rubijervine, tienmulilmine, tienmuliminine, zygadenine, germine. ³³ This herb may cause mucosal irritation.	Lower blood pressure, slow heart rate, antibacterial. It has insecticidal effect.
N.A.	<i>Veratrum viride</i> Ait.	Steroidal, alkaloids, chelidonic acid. ⁹⁹	Lower blood pressure, dilate the peripheral blood vessels.
China	<i>Veronica anagallis-aquatica</i> L.	Aucubin. ⁵⁰	For fever, a gargle for throat ailments, stomatitis.
	<i>Veronica linariaefolia</i> Pall. ex Link	Cordycepic acid, flavonoids. ⁴⁸	For windpipe infection, blood vomiting, relieve pain, detoxicant.

China	<i>Veronica sibirica</i> L. <i>V. undulata</i> Wallich	Mannitol, veronicastroside, inteolin-7- β -neohesperidoside, luteolin, 7- β -glucopyranoside, aucubin, arbutin. ⁴⁸	Relieve swelling, stop bleeding, treat cold, cough.
N.A.	<i>Veronica officinalis</i> L.	Tannins, essential oil, aucuboside, vitamin C, flavonoids, acetopenone glucoside. ⁹⁹	Diuretic, expectorant.
China	<i>Viburnum sargentii</i> Koehne f. <i>glabrum</i> Kom.	Scopoletin, aesculetin, caffeic acid, citric acid, malic acid, chlorogenic acid, isochlorogenic acid, essential oil, kaempferol-3-glucoside, beta-amyrin, beta-sitosterol, paeonin. ⁴⁸	For blood circulation, swelling, detoxicant, relieve itchiness, arthritis.
N.A.	<i>Viburnum opulus</i> L. <i>V. prunifolium</i> L.	Hydroquinones, coumarins, tannins, resin. ^{99,102}	Antispasmodic, sedative, an astringent.
China	<i>Viola acuminata</i> Ledeb.	Saturated acids, cerotic acid, unsaturated acids, alcohols, hydrocarbons. ^{43,48}	Mucilaginous, emollient, suppurative inflammations, abscesses, ulcers.
N.A.	<i>Viola tricolor</i> L.	Saponins, mucilage, violin, salicylic compounds, tannins. ^{100,114}	Diuretic, diaphoretic, tonic, anti-inflammatory, blood-purifying properties.
China	<i>Vitex chinensis</i> Miller <i>V. jéguaod</i> L.	Essential oils, beta-caryophyllene, caryophyllene oxide. ³³	Antitussive, antiasthmatic, antibacterial.
N.A.	<i>Vitex labrusca</i> L. <i>V. agnus-castus</i> L.	Flavonoids, iridoids, agnuside, aucubin, cineol, casticin, viticine. ^{99,182,309}	Treatment of mastopathy, premenstrual syndrome, and luteal insufficiency. Regulate hormones, progestogenic, increases breast milk production.
China	<i>Wisteria sinensis</i> (Sims) Sweet	Toxic glycoside, toxic resin. ⁶⁰ This herb is toxic.	Diuretic.

Table 3 Chinese and North American Medicinal Herbs Belonging to the Same Genus and Different Species: Major Constituents and Therapeutic Values (continued)

Source	Scientific Name	Major Constituents	Therapeutic Values*
N.A.	<i>Wisteria floribunda</i> (Willd.) DC <i>W. brachybotrys</i> Sieb. et Zucc.	Isoflavonoids, triterpenoid saponins, dehydrosoyasaponin, triterpenoids. ^{330,331,332}	Antitumor, treat gastric cancer.
China	<i>Zanthoxylum ailanthoides</i> Sieb. et Zucc.	Essential oils, methyl n-nonylketone, isopimpinellin, dictamine, skimmianine, magnoflorine, laurifoline. ^{64,94}	Treat chills, influenza, sunstroke, indigestion.
	<i>Zanthoxylum bungeanum</i> Maxim.	Essential oils, limonene, cumic alcohol, linalool, myrcene, benzene tert-butyl, sabinene, rerpinenol, piperitone, beta-gurjunene, alpha-piene, geraniol, estragole, cadinene, clovene. ⁵³	Anthelmintic, aromatic, astringent, carminative, emmenagogue, stimulant, sudorific.
	<i>Zanthoxylum nitidum</i> (Roxb.) DC	Nitidine, oxynitidine, vitexin, 6-ethoxy-chelerythrin, diosmin, oxynitidine, oxychelerythrine, skimmianine, N-desmethylchelerythrine. ^{33,50,53}	Analgesic, anodyne, analgesic, antitumor against leukemia, carminative, detoxicant, increase blood flow.
	<i>Zanthoxylum schinifolium</i> Sieb. et Zucc.	Estragol, citronellol, phellandrene, xanthoxylene, skimmianine, magnoflorine, xanthoplanine, dictamnine, bergapten, berberine, esculetin dimethyl ether. ^{33,48,53}	Treat ascaris, relieve abdominal pain caused by ascariar obstruction.
N.A.	<i>Zanthoxylum americanum</i> Mill.	Chelerythrine, herclavin, asarinin, neoherculin, tannins, resins. ⁹⁹	Circulatory stimulant, increases sweating.

* This information should not be used for the diagnosis, treatment, or prevention of diseases in humans. The information contained herein is in no way intended to be a guide to medical practice or a recommendation that herbs be used for medicinal purposes. The information is presented here mainly for educational purposes and should not be used to promote the sale of any product or replace the service of a physician.

References

1. Shibata, S. 1979. The chemistry of Chinese drugs. *Am. J. Chin. Med.* 7: 103-141.
2. Kariyone, T., M. Takahashi, and K. Takalshi. 1956. Studies on glycosides. VII. Components of *Paeonia suffruticosa* Andl. *Yakugaku Zasshi* 76: 917-921.
3. Kanada, M. et al. 1969. *Chem. Pharm. Bull. (Tokyo)* 17: 665.
4. Takido, M., S. Takahashi, K. Masuda, and K. Yasukawa. 1977. Torosachryson, a new tetrahydrozanthracene derivative from the seeds of *Cassia torosa*. *Lloydia* 40: 191.
5. Hartwell, J. L. and M. J. Shear. 1947. Chemotherapy of cancer. Classes of compounds under investigation and active components of podophyllin. *Cancer Res.* 7: 716-717.
6. Fujita, M., H. Itokawa, and Y. Sasuda. 1973. Studies on the components of *Magnolia obovata* Thunb. II. On the components of the methanol extract of the bark. *Yakugaku Zasshi* 93: 422-428.
7. Brekhman, I. I. and I. V. Dardymov. 1969. Pharmacological investigation of glycosides from ginseng and *Eleutherococcus*. *Lloydia* 32: 46-51.
8. Kochetkov, N. K., A. Khorlin, O. S. Chizhov, and V. I. Scheichenko. 1962. Deoxyschizandrin — structure and total synthesis. *Tetrahedron Lett.* 9: 361-363.
9. Shinoda, J. 1929. Über die Bestandteile des *Arctium lapps* L. (II. Mitteilung). *Yakugaku Zasshi* 49: 1165-1169.
10. Kawasaki, T., T. Yamauchi, and N. Itakura. 1963. Saponins of timo (*Anemarrhenae rhizoma*). I. *Yakugaku Zasshi* 83: 892-896.
11. Aritomi, M. and T. Kawasaki. 1968. A mangiferin monomethyl ether from *Mangifera indica* L. *Chem. Pharm. Bull.* 16: 760-761.
12. Shibata, S., M. Harada, and T. Murakami. 1959. Studies on the constituents of Japanese and Chinese crude drugs. II. Antispasmodic action of the constituents of pueraria root. *Yakugaku Zasshi* 79: 863-865.
13. Trunzler, van G. and E. Schuler. 1962. Vergicidende Studien über Wirkungen eines Crataegus Extraktes, von digitoxin, digoxin und G-strophanthin am isolierten Warmbluterherzen. *Arzenetn. Forsch.* 2: 198-202.
14. Kaneda, M., Y. Iitaka, and M. Shibata. 1972. Chemical studies on the oriental plant drugs. XXXIII. *Tetrahedron* 28: 4309-4317.
15. Aimi, N., M. Inaba, M. Watanabe, and S. Shibata. 1969. *Tetrahedron* 25: 1825.
16. Kitagawa, I., T. Nishimura, A. Kobayashi, and I. Yosoka. 1971. On the constituents of rhizome of *Rehmannia glutinosa*. *Yakagaku Zasshi* 91: 593-596.
17. Korte, F. 1954. Über neue glycosidische Pflanzeninhaltsstoffe V. Mitteil: Zur Konstitution des gentiopiokrins und des Hexahydrogentiogenin-methylathers. *Chem. Ber.* 87: 780-783.
18. Inouye, H., S. Saitoh, H. Taguchi, and T. Endo. 1969. Zwei nhue: tridoidglucoside aus *Gardenia jasminoides* gardenosid und geniposid. *Tetrahedron Lett.* 28: 2347-2350.
19. Hikino, H., Y. Hikino, and I. Yosioka. 1964. Studies on the constituents of Atractylodes. IX. Structure and autoxidation of Atractylon. *Chem. Pharm. Bull.* 12: 755-760.

20. Shibata, S., S. Mihashi, and O. Tanaka. 1967. The occurrence of (-)-fimarane-type diterpene in *Aralia cordata* Thunb. *Tetrahedron Lett.* 51: 5241-5243.
21. Kubota, T. and H. Hinoh. 1968. The constitution of saponins isolated from *Bupleurum falcatum* L. *Tetrahedron Lett.* 3: 303-306.
22. Kubota, T. and H. Hinoh. 1968. Triterpenoids from *Bupleurum falcatum* L. III. Isolation of genuine sapogenins saikogenins E, F and G. *Tetrahedron* 24: 675-686.
23. Kubota, T., H. Kitani, and H. Hinoh. 1969. The structure of platycogenic acids A, B, and C, further triterpenoid constituents of *Platycodon grandiflorum* A. De Candolle. *Chem. Commun.* 1969: 1313-1315.
24. Sakuma, S., N. Sugtura, H. Tanemoto, H. Amakawa, and J. Shuji. 1975. Abstr. 95th Annu. Meet. Pharm. Soc. Japan 11: 247.
25. Fujita, M., H. Itokawa, and Y. Kumekawa. 1974. The study on the constituents of *Clematis* and *Akebia* spp. I. Distribution of triterpenes and other components. *Yakugaku Zasshi* 94: 189-191.
26. Yahara, S., R. Kami, and O. Tanaka. 1977. New dammarane type saponins of leaves of *Panax japonicus* C. A. Meyer. (I) Chikusetsusaponins-L₅, L₉, and L₁₀. *Chem. Pharm. Bull.* (Tokyo) 23: 2041-2047.
27. Inoue, O., T. Takeda, and Y. Ogihara. 1977. Abstr. 97th Annu. Meet. Pharm. Soc. Japan 11: 220.
28. Saito, H., Y. M. Lee, K. Takagi, and N. Kondo. 1977. *Chem. Pharm. Bull.* (Tokyo) 25: 1017.
29. Kawanishi, S., Y. Mitral, and J. Shoji. 1972. Studies on wujiapi and some related crude drugs. I. Morphological studies on bei-wujiapi and some related drugs. *Yakugaku Zasshi* 89: 972-978.
30. Chen, K. K. 1929. Relationship between the pharmacological action and the chemical constitution and configuration of the optical isomers of ephedrine and related compounds. *J. Pharmacol.* 36: 363-400.
31. Yamasaki, K., U. Sankswa, and S. Shibata. 1969. Biosynthesis of ephedrine in ephedra. *Tetrahedron Lett.* 47: 4099-4102.
32. Takagi S., T. Akiyama, T. Kinoshita, U. Sankawa, and S. Slubata. 1979. Minor basic constituents of evodia fruits. *Shoyakugaku Zasshi* 33: 30-34.
33. Huang, K. C. 1999. *The Pharmacology of Chinese Herbs*. 2nd ed. CRC Press. New York. 512 p.
34. Liao, D. F., N. Lu, L. S. Lei, L. Yu., and J. X. Chen. 1995. Effects of gypenosides on mouse splenic lymphocyte transformation and DNA polymerase II activity *in vitro*. *Acta Pharmacol. Sin.* 16: 322-324.
35. Chen, K. K. and F. G. Henderson. 1965. Digitalis-like substances of antiararis. *J. Pharmacol. Exp. Ther.* 150: 53-56.
36. Zhang, B. H., N. S. Wang, X. J. Li, X. J. Kong, and Y. L. Cai. 1990. Anti-arrhythmic effects of matrine. *Acta Pharmacol. Sin.* 11: 253-257.
37. Chen, X. J., H. Y. Fan, Y. F. Yao, J. X. Zhang, and W. X. Gu. 1987. Relation of the antihypertensive effect and central alpha-adrenoceptor of rhomotoxin. *Acta Pharmacol. Sin.* 8: 247-250.
38. Kondo, H. and M. Tomita. 1936. *Arch. Pharm.* 274: 65-82.
39. Zhang, J. T. 1996. Studies on traditional Chinese drugs. *Chin. Med. J.* 109: 54-58.
40. Wu, P. C. 1983. *Pharmacology of Zhong Cai Yao*. Peoples' Health Publisher. Beijing. p. 90-91.
41. Lei, S. W. and Z. B. Lin. 1991. *J. Beijing Med. Univ.* 23: 329-333 (English abstract only).

42. Itoigawa, M., K. Takeya, and H. Furukawa. 1994. Cardiotonic flavonoids from citrus plants. *Biol. Pharmacol. Bull. (Japan)* 78: 1519-1521.
43. Ju, H. S. 1991. *Chin. Circ. J.* 6: 227-229.
44. Hans, R. H. and M. H. Park. 1986. In: Steiner (ed.). *Folk Medicine*. American Chemical Society. Washington, D.C. p. 205-215.
45. Woo, W. S. 1985. In: *Advanced Chinese Medicinal Material Research*. H. M. Chang et al. (eds.). World Scientific Publishing. Singapore. p. 129-146.
46. Zhon, S. G. 1931. *Chin. J. Physiol.* 5: 131-140.
47. Chow, K. and I. Kramer. 1990. *All the tea in China*. China Books and Periodicals. San Francisco, CA.
48. Zhu, Y.-C. 1989. *Plantae Medicinales China Roreali-Orientalis*. Heilongjiang Sci. Technology Publ. House. 1300 p.
49. Keys, J. D. 1976. *Chinese herbs — their chemistry and pharmacodynamics*. Charles E. Tuttle. Vermont. 388 p.
50. Duke, J. A. and E. S. Ayensu. 1985. *Medicinal Plants of China*. Vol. 1 and 2. Reference Publ. Inc. Michigan. 705 p.
51. Bliss, B. 1973. *Chinese Medicinal Herbs*. Georgetown Press. San Francisco. 467 p.
52. Perry, L. M. 1980. *Medicinal Plants of East and Southeast Asia*. MIT Press. Cambridge, MA. 620 p.
53. Chen, F. C. 1997. *Active Ingredients and Identification in Common Chinese Herbs*. People Health Publ. Co. China. 872 p.
54. Chiu, N. and K. Chang. 1995. *The Illustrated Medicinal Plants in Taiwan*. Vol. 1. SMC Publ. Inc. Taiwan. 283 p.
55. Chiu, N. and K. Chang. 1995. *The Illustrated Medicinal Plants in Taiwan*. Vol. 2. SMC Publ. Inc. Taiwan. 315 p.
56. Chiu, N. and K. Chang. 1995. *The Illustrated Medicinal Plants in Taiwan*. Vol. 3. SMC Publ. Inc. Taiwan. 312 p.
57. Chiu, N. and K. Chang. 1995. *The Illustrated Medicinal Plants in Taiwan*. Vol. 4. SMC Publ. Inc. Taiwan. 319 p.
58. Chiu, N. and K. Chang. 1995. *The Illustrated Medicinal Plants in Taiwan*. Vol. 5. SMC Publ. Inc. Taiwan. 289 p.
59. Cordell, G. A. 1984. Studies in the Thymelacaceae. I. NMR spectral assignments of daphnoretin. *J. Nat. Prod.* 47: 84-88.
60. Perry, L. M. and J. Metzger. 1980. *Medicinal plants of East and Southeast Asia: Attributed Properties and Uses*. MIT Press. London. 620 p.
61. Crevost, C. and A. Petelot. 1929. *Catalogue des produits de l'Indochine*. *Plantes Med.* 32: 1-35.
62. Petelot, A. 1952. Les plantes medicinales du Cambodge, du Laos et du Vietnam. I. *Arch. Recherches Agron. Cambodge, Laos, Vietnam* 14: 1-408.
63. Arthur, H. R. and H. T. Cheung. 1960. A phytochemical survey of the Hong Kong medicinal plants. *J. Pharm. Pharmacol.* 12: 567-570.
64. Chiu, C. 1955. *A New Manual of Chinese Materia Medica*. Shanghai, China. 385 p.
65. Kariyone, T. and Y. Kimura. 1949. *Japanese-Chinese Medicinal Plants, Their Constituents and Medicinal Uses*. 2nd ed. 519 p.
66. Gimlette, J. D. 1929. *Malay Poisons and Charm Cures*. 3rd ed. New York. 301 p.
67. Steinmetz, E. F. 1954. Unsigned note: soya bean, source of new edible antibiotic. *Acta Phytoter.* 1: 15.
68. Ros, J. 1955. *Traite des plantes medicinales chinoises*. *Encyc. Biol.* 47: 1-500.
69. Chung, Y. C. 1959. *New Chinese Materia Medica*. Vol. 1. Roots. Beijing, China. 564 p.

70. Johnston, J. C., R. C. Wetch, and G. L. K. Hunter. 1980. Volatile constituents of litchi (*Litchi chinensis* Sonn.). J. Agric. Food Chem. 28: 859-861.
71. Chung, K. T. 1959. A Chinese Native Medicinal Flora for Farmers. Beijing, China. 281 p.
72. Kariyone, T. and Y. Kimura. 1949. Japanese-Chinese Medicinal Plants, Their Constituents and Medicinal Uses. 2nd ed. Tokyo, Japan. 519 p.
73. Douglas, B. and A. K. Kiang. 1957. A phytochemical survey of the flora of Malaya. I. Alkaloids. Malayan Pharm. J. 6: 138-154.
74. Arata, Y. and T. Chashi. 1957. Studies on the constituents of *Rhizoma nupharis*. XII. On its third alkaloid (nupharmine). J. Pharm. Soc. Jpn. 77: 792.
75. Arata, Y. and H. Matsuda. 1961. Constituents of *Rhizoma nupharis*. XVII. Isolation of β -sitosterol, palmitic acid, and oleic acid. Kanazawa Daigaku Yakugakubu Kenyu Nempo 10: 35-39.
76. Arthur, H. and T. Cheung. 1960. A phytochemical survey of the Hong Kong medicinal plants. J. Pharm. Pharmacol. 12: 567-570.
77. Akhtardzhiev, K. and D. Koley. 1961. Composition of mucins. II. Mucins from *Malva sylvestris* flowers. Pharm. Zentralh. 100: 14-16.
78. Sreenis, C. G. S. van. 1958. Magic plants of the Dayak. Sarawak Mus. J. n. s. 11: 430-436.
79. Youngken, H. W. (ed.) 1936. A Textbook of Pharmacognosy. 4th ed. New York. 1063 p.
80. Kleipool, R. J. C. and J. P. Wibaut. 1959. Mimosine (leucaenine) 5th communication. Rec. Trav. Chim. Pays-Bas 69: 37-44.
81. Arthur, H. R. 1954. A phytochemical survey of some plants of North Borneo. J. Pharm. Pharmacol. 6: 66-72.
82. Chaudhry, G. R., V. N. Sharma, and S. Siddiqui. 1951. Chemical constituents of *Nardostachys jatamansi*. I. Isolation of a crystalline acid and an essential oil. J. Sci. Ind. Res. 10B: 48.
83. Kiang, A. K., B. Douglas, and F. Morsingh. 1961. A phytochemical survey of Malaya. II. Alkaloids. J. Pharm. Pharmacol. 13: 98-104.
84. Li, C. S. 1996. Appraisal of Chinese Medicine. Shanghai Scientific and Technology Publishing Co. China. 699 p.
85. Chiu, C. 1955. A New Manual of Chinese Materia Medica. Shanghai Scientific and Technology Publishing Co. China. 385 p.
86. Petelot, A. 1952. Les plantes medicinales du Cambodge, du Laos et du Vietnam. I. Arch. Rech. Agron. Pastor. Vietnam 18: 1-284.
87. Zheng, J. H. 1983. Commonly used Chinese herbs in the treatment of carcinoma. Department of Pharmacognosy, University of Chicago, Chicago, IL.
88. Roi, J. 1955. Traite des plantes medicinales chinoises. Encyc. Biol. 47: 1-500.
89. Arthur, R. 1954. A phytochemical survey of some plants of North Borneo. J. Pharm. Pharmacol. 6: 66-72.
90. Plugge, P. C. 1891. Das alkaloid von *Sophora tomentosa* L. Arch. Pharm. 229: 561-565.
91. Zhu, J. S., G. M. Halpern, and K. Jones. 1998. The scientific rediscovery of an ancient Chinese herbal medicine: Part I. *Cordyceps sinensis*. J. Alternative and Complementary Med. 4: 289-305.
92. Zhu, J. S., G. M. Halpern, and K. Jones. 1998. The scientific rediscovery of an ancient Chinese herbal medicine: II. *Cordyceps sinensis*. J. Alternative and Complementary Med. 4: 429-457.
93. Gorter, K. 1919. Sur la distribution de la lycorine dans la famille des Amaryllidacees. Bull. Jard. Bot. Buitenzorg III 1: 352-358.

94. Tomita, M. and H. Ishii. 1958. Studies on the alkaloids of rutaceous plants. IV. Alkaloids of *Xanthoxylum ailanthoides* Sieb. & Zucc. [*Fagara ailanthoides* (Sieb. & Zucc.) Engl.]. J. Pharm. Soc. Jpn. 78: 1441-1443.
95. Li, T. S. C. 2000. Medicinal Plants — Culture, Utilization and Phytopharmacology. Technomic Publishing Co., Inc. Lancaster, PA. 517 p.
96. Crevost, C. and A. Petelot. 1929. Catalogue des produits de l'Indochine. Plantes Med. 37: 267-311.
97. Valenzuela, P., A. C. Santos, and J. A. Concha. 1954. The chemistry and pharmacy of drugs of pharmacopoeial value from Philippine medicinal plants. Proc. 8th Pacific Sci. Congr. 4A: 170-181.
98. Balandrin, M. F. and J. A. Klocke. 1988. Medicinal, aromatic, and industrial materials from plants. In: Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 4. Medicinal and Aromatic Plants I. Springer-Verlag. New York. p. 3-36.
99. Chevallier, A. 1996. The Encyclopedia of Medicinal Plants. Dorling Kindersley Ltd. London. 336 p.
100. Duke, J. A. 1985. CRC Handbook of Medicinal Herbs. CRC Press. Boca Raton, FL. 677 p.
101. Guedon, D., P. Abbe, and J. L. Lamaison. 1993. Leaf and flower head flavonoids of *Achillea millefolium* L. subspecies. Biochem. Syst. Ecol. 21: 607-611.
102. Rogers, R. D. 1997. Sundew, Moonwort, Medicinal Plants of the Prairies. Vol. 1 and 2. Edmonton, Alberta. 282 p.
103. Small, E. and P. M. Catling (eds.) 1999. Canadian Medicinal Crops. NRC Research Press. 240 p.
104. Shoyama, Y., I. Nishioka, and K. Hatano. 1991. *Aconitum* spp. (monkshood): somatic embryogenesis, plant regeneration, and the production of aconitine and other alkaloids. In Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic plants III. Springer-Verlag. New York. p. 58-72.
105. Bown, D. 1987. *Acorus calamus* L.: a species with a history. Aroideana (International Aroid Society, South Miami, FL) 10: 11-14.
106. Ducrey, B., J. L. Wolfender, A. Marston, and K. Hostenmann. 1955. Analysis of flavonol glycosides of thirteen *Epilobium* species (Onagraceae) by LC-UV and thermospray LC-MS. Phytochemistry 38: 129-137.
107. Small, E. (ed.). 1997. Culinary Herbs. NRC Research Press. Ottawa. 710 p.
108. Cavallini, A., L. Natali, and I. Castorena Sanchez. 1991. *Aloe barbadensis* Mill. (= *A. vera* L.). In: Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III. Springer-Verlag. New York. p. 95-106.
109. Natali, A. C. and I. C. Sanchez. 1991. *Aloe barbadensis* Mill. (= *A. vera* L.). In: Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III. Springer-Verlag. New York. p. 95-106.
110. Collin, H. A. and S. Isaac. 1991. *Apium graveolens* L. (celery): *in vitro* culture and the production of flavors. In: Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III. Springer-Verlag. New York. p. 73-94.
111. Kato, M. 1989. *Camellia sinensis* L. (tea): *in vitro* regeneration. In Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 7. Medicinal and Aromatic Plants II. Springer-Verlag. New York. p. 82-98.
112. Furuya, T. and T. Yoshikawa. 1991. *Carthamus tinctorius* L. (safflower): production of vitamin E in cell culture. In: Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III. Springer-Verlag. New York. p. 142-155.

113. Furmanowa, M., D. Sowinska, and A. Pietrosiuk. 1991. *Carum carvi* L. (caraway): *in vitro* culture, embryogenesis, and the production of aromatic compounds. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III*. Springer-Verlag. New York. p. 177-192.
114. Willuhn, G. 1998. *Arnica* flowers: pharmacology, toxicology and analysis of the sesuiterpene lactones, their main active substance. In: Lawsib, L. D. and R. Bauer (eds.). *Phytomedicines of Europe, Chemistry and Biological Activity*. American Chemical Society. Washington, D.C. p. 118-132.
115. Jayatilake, G. S. and A. J. MacLeod. 1987. Volatile constituents of *Centella asiatica*. In: M. Martens, G. A. Dalen, and H. Russwurm, Jr. (eds.). *Flavour Science & Technology*, John Wiley & Sons. New York. p. 79-82.
116. Solet, J. M., A. Simon-Ramiasa, L. Cosson, and J. L. Guignard. 1998. *Centella asiatica* (L.) urban (pennywort): cell culture, production of terpenoids, and biotransformation capacity. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 41. Medicinal and Aromatic Plants X*. Springer-Verlag. New York. p. 81-96.
117. Cordeiro, M. C., M. S. Pats, and P. E. Brodelius. 1998. *Cynara cardunculus* subsp. *flavescens* (cardoon): *in vitro* culture, and the production of cyprosin-milk-clotting enzymes. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 41. Medicinal and Aromatic Plants X*. Springer-Verlag. New York. p. 132-153.
118. Bremness L. 1994. *Herbs*. Dorling Kindersley Ltd. London. 304 p.
119. Sakurai, N. and M. Nagai. 1996. Chemical constituents of original plants of *Cimicifuga rhizoma* in Chinese medicine. *Yakugaku Zasshi* 116: 850-865.
120. Struck, D., M. Tegtmeier, and G. Harnischfeger. 1997. Flavones in extract of *Cimicifuga racemosa*. *Planta Med.* 63: 289.
121. Mansell, R. L. and C. A. McIntosh. 1991. *Citrus* spp.: *in vitro* culture and the production of naringin and limonin. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III*. Springer-Verlag. New York. p. 193-210.
122. Khodzhimatov, K., S. F. Fakhrutdinov, G. S. Aprasidi, N. P. Kuchni and K. Karimov. 1987. *Codonopsis clematidea* Schreuk — a valuable medicinal plant. *Referativnyi Zh.* 10: 55, 790.
123. Ishimaru, K., N. Tanaka, T. Kamiya, T. Sato, and K. Shimomura. 1998. *Cornus kousa* (dogwood): *in vitro* culture, and the production of tannins and other phenolic compounds. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 41. Medicinal and Aromatic Plants X*. Springer-Verlag. New York. p. 113-131.
124. Strenath, H. L. and K. S. Jagadishchandra. 1991. *Cymbopogon* Spreng. (aromatic grasses): *in vitro* culture, regeneration, and the production of essential oils. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III*. Springer-Verlag. New York. p. 211-236.
125. Tominaga, T. and D. Dubourdieu. 1997. Identification of 4-mercapto-4-methylpentan-2-one from the box tree (*Buxus sempervirens* L.) and broom (*Sarothamnus scoparius* (L.) Koch.). *Flavour and Fragrance J.* 12: 373-376.
126. Furmanowa, M. and J. Guzewska. 1989. *Dioscorea*: *in vitro* culture and the micro-propagation of diosgenin-containing species. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 7. Medicinal and Aromatic Plants II*. Springer-Verlag. New York. p. 162-184.
127. Halstead, B. W. and L. L. Hood. 1942. *Eleutherococcus senticosus*, Siberian Ginseng: An Introduction to the Concept of Adaptogenic Medicine. Oriental Healing Arts Institute. Long Beach, CA. 94 p.
128. Li, T. S. C. 2001. Siberian Ginseng. *HortTechnology* 11: 1-7.

129. O'Dowd, N. A., P. G. McCauley, G. Wilson, J. A. N. Parnell, T. A. K. Kavanagh, and D. J. McConnell. 1998. *Ephedra* species: *in vitro* culture, micropropagation, and the production ephedrine and other alkaloids. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 41. Medicinal and Aromatic Plants X*. Springer-Verlag. New York. p. 154-193.
130. Duke, J. A. and J. L. duCellier. 1993. *CRC Handbook of Alternative Cash Crops*. CRC Press. London. 536 p.
131. Zheng, G. Q., P. M. Kenney, and L. K. T. Lam. 1992. Sesquiterpenes from clove (*Eugenia caryophyllata*) as potential anticarcinogenic agents. *J. Nat. Prod.* 55: 999-1003.
132. Kameoka, H., M. Miyazawa, and K. Haze. 1975. 3-Ethyl-7-hydroxyphthalide from *Forsythia japonica*. *Phytochemistry* 14: 1676-1677.
133. Ahlemeyer, B. and J. Krieglstein. 1998. Neuroprotective effects of *Ginkgo biloba* extract. In: Lawsib, L. D. and R. Bauer (eds.). *Phytomedicines of Europe, Chemistry and Biological Activity*. American Chemical Society. Washington, D.C. p. 210-220.
134. Arenz, A., M. Klein, K. Fiehe, J. Gross, C. Drewke, T. Hemscheidt, and E. Leistner. 1996. Occurrence of neurotoxic 4'-O-methylpyridoxine in *Ginkgo biloba* leaves, *Ginkgo* medications and Japanese ginkgo food. *Planta Med.* 62: 548-551.
135. Xing, S., G. Huangpu, Y. Zhang, J. Hou, X. Sun, F. Han, and J. Yang. 1997. Analysis of the nutritional components of the seeds of promising ginkgo cultivars. *J. Fruit Sci.* 14: 39-41.
136. Rigney, U., S. Kimber, and I. Hindmarch. 1999. The effects of acute doses of standardized *Ginkgo biloba* extract on memory and psychomotor performance in volunteers. *Phytother. Res.* 13: 408-415.
137. Jacobs, B. P. and W. S. Browner. 2000. *Ginkgo biloba*: a living fossil. *Am. J. Med.* 108: 276-281.
138. Caballero, R., M. Haj-Ayed, J. F. Galvez, P. J. Hernaiz, and M. H. Ayed. 1995. Yield components and chemical composition of some annual legumes and oat under continental Mediterranean conditions. *Agric. Mediterranea* 125: 222-230.
139. Li, T. S. C. and W. R. Schroeder. 1996. Sea buckthorn (*Hippophae rhamnoides* L.): a multipurpose plant. *HortTechnology* 6: 370-380.
140. Li, T. S. C. and L. C. H. Wang. 1998. Physiological components and health effects of ginseng, echinacea and sea buckthorn. In: G. Mazza (ed.). *Functional Foods, Biochemical and Processing Aspects*. Technomic Publishing Co., Inc. Lancaster, PA. 460 p.
141. Oomah, D., L. Stephanie, and D. V. Godfrey. 1999. Properties of sea buckthorn (*Hippophae rhamnoides* L.) and ginseng (*Panax quinquefolium* L.) seed oils. *Proc. Canadian Inst. Food Sci. Technology Annual Conf.* Kelowna, BC. 55 p.
142. Heale, J. B., T. Legg, and S. Connell. 1989. *Humulus lupulus* L.: *in vitro* culture: attempted production of bittering components and novel disease resistance. In Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 7. Medicinal and Aromatic Plants II*. Springer-Verlag. New York. p. 264-285.
143. Stevens, R. 1967. The chemistry of hop constituents. *Chem. Rev.* 67: 19-71.
144. Tomlinson, B., T. Y. K. Chan, J. C. N. Chan, J. A. J. H. Critchley, and P. P. H. But. 2000. Toxicity of complementary therapies: Eastern perspective. *J. Chin. Pharmacol.* 40: 451-458.
145. List, P. H. and L. Horhammer. 1969. *Hoger's Handbuch der Pharmaceutischen Praxis*. Vol. 2-6. Springer-Verlag. Berlin.
146. Morton, J. F. 1981. *Atlas of Medicinal Plants of Middle America*. Charles C Thomas. Springfield, IL.

147. Bisset, N. G. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. London. 566 p.
148. Syrchina, A. I., N. N. Pechurina, A. L. Vereshchagin, A. G. Gorshkov, I. E. Tsapalova, and A. A. Semenov. 1993. A chemical investigation of *Matteuccia struthiopteris*. Chem. Nat. Compd. 29: 535-536.
149. Bastida, J., S. Bergonon, F. Viladomat, and C. Codina. 1994. Alkaloids from *Narcissus primigenius*. Planta Med. 60: 95-96.
150. Bracco, V. 1973. Determination of polycyclic aromatic hydrocarbons: technique and application to coffee oil. Riv. Ital. Sostanze Grasse 50: 166-176.
151. Kreh, M., R. Matusch, and L. Witte. 1995. Acetylated alkaloids from *Narcissus pseudonarcissus*. Phytochemistry 40: 1303-1306.
152. Mulherjee, K. D. and I. Kiewitt. 1987. Formation of gamma linolenic acid in the higher plant evening primrose (*Oenothera biennis* L.). J. Agric. Food Chem. 35: 1009-1012.
153. Yamamoto, H. 1988. *Paeonia* spp.: *in vitro* culture and the production of paeoniflorin. In Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 4: Medicinal and Aromatic Plants I. Springer-Verlag. New York. p. 464-483.
154. Bunney, S. 1992. The Illustrated Encyclopedia of Herbs, Their Medicinal and Culinary Uses. Chancellor Press. London. 320 p.
155. Li, T. S. C. 1995. Asian and American ginseng, a review. HortTechnology 5: 27-34.
156. Sticher, O. 1998. Biochemical, pharmaceutical, and medical perspectives of ginseng. In: Lawsib, L. D. and R. Bauer (eds.). Phytomedicines of Europe, Chemistry and Biological Activity. American Chemical Society. Washington, D.C. p. 221-240.
157. Gray, A. I., P. Bhandari, and P. G. Waterman. 1988. New protolimonoids from the fruits of *Phellodendron chinense*. Phytochemistry 27: 1805-1808.
158. Chuda, Y., H. Ono, M. Ohnishi-Kameyama, K. Matsumoto, T. Nagata, and Y. Kikuchi. 1999. Mumefural, citric acid derivative improving blood fluidity from fruit-juice concentrate of Japanese apricot (*Prunus mume* Sieb. et Zucc.). J. Agric. Food Chem. 47: 828-831.
159. Fang, T. T., and J. H. Huang. 1999. Extraction, fractionation and identification of bitter oligopeptides and amino acids in mei fruit (*Prunus mume* Sieb. et Zucc.). J. Beijing Forestry Univ. 21: 61-71.
160. Short, K. C. and A. V. Roberts. 1991. *Rosa* spp. (roses): *in vitro* culture, micropropagation, and the production of secondary products. In: Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III. Springer-Verlag. New York. p. 376-397.
161. McGimsey, J. 1993. Sage, *Salvia officinalis*. www.crop.cri.nz/broadshe/sage.htm
162. Henry, M. 1989. *Saponaria officinalis* L.: *in vitro* culture and the production of triterpenoidal saponins. In: Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 7. Medicinal and Aromatic Plants II. Springer-Verlag. New York. p. 431-442.
163. Yamamoto, H. 1991. *Scutellaria baicalensis* Georgi: *in vitro* culture and the production of flavonoids. In: Bajaj, Y. P. S. (ed.). Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III. Springer-Verlag. New York. p. 398-418.
164. Brown, M. S. and R. J. Molyneux. 1996. Effects of water and mineral nutrient deficiencies on pyrrolizidine alkaloid content of *Senecio vulgaris* flowers. J. Sci. Food Agric. 70: 209-211.
165. Chung, C. H., Y. J. Yee, D. H. Kim, H. K. Kim, and D. S. Chung. 1995. Changes of lipid, protein, RNA and fatty acid composition in developing sesame (*Sesamum indicum* L.) seeds. Plant Sci. Limerick 109: 237-243.

166. Ogasawara, T., K. Chiba, and M. Tada. 1998. *Sesamum indicum* L. (sesame): *in vitro* culture and the production of naphthoquinone and other secondary metabolites. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry* 41. Medicinal and Aromatic Plants X. Springer-Verlag, New York. p. 366-393.
167. Omer, E. A., A. M. Refaat, S. S. Ahmed, A. Kamel, and F. M. Hammouda. 1993. Effect of spacing and fertilization on the yield and active constituents of milk thistle, *Silybum marianum*. *J. Herbs Spices Med. Plants* 1: 17-23.
168. Sonnenbichler, J., I. Sonnenbichler, and F. Scalera. 1998. Influence of the flavonolignan silibinin of milk thistle on hepatocytes and kidney cells. In: Lawsib, L. D. and R. Bauer (eds.) *Phytomedicines of Europe, Chemistry and Biological Activity*. American Chemical Society, Washington, D.C. p. 263-277.
169. Szentimihalyi, K., M. Then, V. Illes, S. Perneczky, Z. Sandor, B. Lakatos, and P. Vinkler. 1998. Phytochemical examination of oils obtained from the fruit of milk thistle (*Silybum marianum* L. Gaertner) by supercritical fluid extraction. *Z. Naturforsch. Sec. C Biosci.* 53: 9-10, 779-784.
170. Chapple, C. C. S. and B. E. Ellis. 1991. *Syringa vulgaris* L. (common lilac): *in vitro* culture and the occurrence and biosynthesis of phenylpropanoid glycosides. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry* 15. Medicinal and Aromatic Plants III. Springer-Verlag, New York. p. 478-497.
171. Lawrence, B. M. 1985. Essential oils of the *Tugetes* genus. *Perf. Flav.* 10: 73-82.
172. Kussi, T., K. Hardh, and H. Kanon. 1984. Experiments on the cultivation of dandelion for salads use. II. The nutritive value and intrinsic quality of dandelion leaves. *J. Agric. Sci. Finland* 56: 23-31.
173. Kuusi, T., H. Pyysalo, and K. Autio. 1985. The bitterness properties of dandelion. II. Chemical investigations. *Lebensm. Wiss. Technol. (Zurich)* 18: 349-359.
174. Li, J. X., Q. Shi, Q. B. Xiong, J. K. Prasain, and Y. Texuka. 1998. Tribulusamide A and B, new hepatoprotective lignanamides from the fruits of *Tribulus terrestris*: indications of cytoprotective activity in murine hepatocyte culture. *Plant Med.* 64: 628-631.
175. Kaushalya, G., K. K. Thakral, S. K. Arora, M. L. Chowdhary, and K. Gupta. 1996. Structural carbohydrate and mineral contents of fenugreek seeds. *Indian Cocoa, Arecanut and Spices J.* 20: 120-124.
176. Baguena, C. L. 1942. Notes on some longicorns harmful to cultivated trees, including cacao and coffee, in the Spanish territories in the Gulf of Guinea. *Publ. Direcc. Agric. Territ. Exp. Golfi. Guinea* 6: 39-91.
177. Cunio, L. 1994. *Vaccinium myrtillus*. *Aust. J. Med. Herbalism* 5: 81-85.
178. Nazarko, L. 1995. Infection control. The therapeutic uses of cranberry juice. *Nurs. Stand.* 9: 33-35.
179. Ofek, I., J. Goldhar, and N. Sharon. 1996. Anti-*Escherichia coli* adhesin activity of cranberry and blueberry juices. *Adv. Exp. Med. Biol.* 408: 179-183.
180. Schmidt, D. R. and A. E. Sobota. 1988. An examination of the anti-adherence activity of cranberry juice on urinary and nonurinary bacterial isolates. *Microbios* 55: 173-181.
181. Gabius, H. J. and S. Gabius. 1998. Phytotherapeutic immunomodulation as a treatment modality in oncology: lessons from research with mistletoe. In: Lawsib, L. D. and R. Bauer (eds.). *Phytomedicines of Europe, Chemistry and Biological Activity*. American Chemical Society, Washington, D.C. p. 278-286.
182. Ikan, R., V. Weinstein, Y. Milner, B. Bravdo, O. Shoseyov, D. Segal, A. Altman, I. Chet, D. Palevitch, and E. Putievsky. 1993. Natural glycosides as potential odorants and flavorants. *Int. Symp. Medicinal Aromatic Plants, Tiberias on the Sea of Galilee, Israel* 22-25 Mar., 1993. *Acta Hort.* 344: 17-28.

183. Bordia, A., S. K. Verma, and K. C. Srivastava. 1997. Effect of ginger (*Zingiber officinale* Rosc.) and fenugreek (*Trigonella foenumgraecum* L.) on blood lipids, blood sugar and platelet aggregation in patients with coronary artery diseases. *Prostaglandins Leukotrienes Essential Fatty Acids* 56: 379-384.
184. Sakamura, F. and T. Suga. 1989. *Zingiber officinale* Roscoe (ginger): *in vitro* propagation and the production of volatile constituents. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry* 7. Medicinal and Aromatic Plants II. Springer-Verlag, New York. p. 524-538.
185. Marles, R. J., C. Clavelle, L. Monteleone, N. Tays, and D. Burns. 1999. *Aboriginal Plant Use in Canada's Northwest Boreal Forest*. UBC Press, Vancouver, Canada. 368 p.
186. Hetherington, M. and W. Steck. 1997. Natural chemicals from northern prairie plants: the phytochemical constituents of one thousand North American species. *Fytokem Products*. Saskatoon, SK.
187. Burkill, H. M. 1985. *The Useful Plants of West Tropical Africa*. Vol. 1. Families A-D. Royal Botanic Gardens, Kew, U.K.
188. Duke, J. A. and J. L. duCellier. 1993. *CRC Handbook of Alternative Cash Crops*. CRC Press, London. 536 p.
189. Youngken, H. W. 1950. *A Textbook of Pharmacognosy*. 6th ed. Blakiston Publ. Co. New York. 1063 p.
190. Kuhnlein, H. V. and N. J. Turner. 1991. *Traditional Plant Foods of Canadian Indigenous Peoples. Nutrition, Botany and Use*. Gordon and Breach Sci. Publ. Philadelphia, PA.
191. Small, E. (ed.). 1997. *Culinary Herbs*. NRC Research Press. Ottawa. 710 p.
192. Mathes, H. W. D., B. Luu, and G. Ourisson. 1980. Cytotoxic components of *Zingiber zerumbet*, *Curcuma zedoria* and *C. domestica*. *Phytochemistry* 19: 2643-2650.
193. Grover, G. S. and J. T. Rao. 1987. Antimicrobial properties of the essential oils of *Cymbopogon martinii* and *Zingiber zerumbet*. *Pafai J.* 9: 4, 19-22.
194. Bandara, B. M. R., I. H. S. Fernando, C. M. Hewage, V. Karunaratne, N. K. B. Adikaram, and D. S. A. Wijesundara. 1989. Antifungal activity of some medicinal plants of Sri Lanka. *J. Nat. Sci. Counc. Sri Lanka* 17: 1, 1-13.
195. Lechat-Vahirua, I., P. Francois, C. Menut, G. Lamaty, and J. M. Bessiere. 1993. Aromatic plants of French Polynesia. I. Constituents of the essential oils of rhizomes of three Zingiberaceae: *Zingiber zerumbet* Smith, *Hedychium coronarium* Koenig and *Etlingera cevuga* Smith. *J. Essential Oil Res.* 5: 1, 55-59.
196. Akihisa, T., P. Ghosh, S. Thakur, S. Oshikiri, T. Tamura, and T. Matsumoto. 1988. 24 beta-methylcholesta-5, 22E,25-trien-3beta-ol, and 24alpha-ethyl-5alpha-cholest-22E-en-3beta-ol from *Clerodendrum fragrans*. *Phytochemistry* 27: 241-244.
197. Komai, K. and C. S. Tang. 1989. Chemical constituents and inhibitory activities of essential oils from *Cyperus brevifolius* and *C. kyllingia*. *J. Chem. Ecol.* 15: 2171-2176.
198. Hellion-Ibarrola, M. C., D. A. Ibarrola, Y. Montalbetti, D. Villalba, O. Heinichen, and E. A. Ferro. 1999. *J. Ethnopharmacol.* 66: 271-276.
199. Ohmiya, S., H. Otomasu, J. Haginiwa, and J. Murakoshi. 1978. (+)-5,17-Dehydromatrine N-oxide, a new alkaloid in *Euchresta japonica*. *Phytochemistry* 17: 2021-2022.
200. Ohmiya, S., H. Otomasu, J. Haginiwa, and J. Murakoshi. 1979. (-)-12-Cytisineacetic acid, a new lupin alkaloid in *Euchresta japonica*. *Phytochemistry* 18: 649-650.
201. Shirataki, Y., A. Manaka, I. Yokoe, and M. Komatsu. 1982. Two prenylflavonones from *Euchresta japonica*. *Phytochemistry* 21: 2959-2963.

202. Lu, C., J. Yang, P. Wang, C. Lin, C. M. Lu, J. J. Yang, P. Y. Wang, and C. C. Lin. 2000. A new acylated flavonol glycoside and antioxidant effects of *Hedyotis diffusa*. *Planta Med.* 66: 374-377.
203. Nishihama, Y., K. Masuda, M. Yamaki, S. Takagi, and K. Sakina. 1981. Three new iridoid glucosides from *Hedyotis diffusa*. *Plants Med.* 43: 28-33.
204. Ho, T. I., G. P. Chen, Y. C. Lin, Y. M. Lin, and F. C. Chen. 1986. An anthraquinone from *Hedyotis diffusa*. *Phytochemistry* 25: 1988-1989.
205. Wu, H. M., X. L. Tao, Q. Chen, and X. F. Lao. 1991. Iridoids from *Hedyotis diffusa*. *J. Nat. Prod.* 54: 254-256.
206. Wong, K. C. and G. L. Tan. 1995. Composition of the essential oil of *Hedyotis diffusa* Willd. *J. Essential Oil Res.* 7: 537-539.
207. Ojewole, J. A. O. 1980. Studies on the pharmacology of tetramethylpyrazine from the stem of *Jatropha podagrica*. *Plants Med.* 39: 238.
208. Odebiyi, O. O. 1985. Steroids and flavonoids from *Jatropha podagrica* stem bark. *Fitoterapia* 56: 302-303.
209. Saito, K., M. Nishijima, N. Ohno, T. Yadomae, and T. Miyazaki. 1992. Structure and antitumour activity of the less-branched derivatives of an alkali-soluble glucan isolated from *Omphalia lapidescens*. *Chem. Pharm. Bull.* 40: 261-263.
210. Kuhnlein, H. V. and R. Soueida. 1992. Use and nutrient composition of traditional Baffin Inuit foods. *J. Food Composition Anal.* 5: 112-126.
211. Dogra, J. V. V. and S. K. P. Sinha. 1979. Observation of the age related changes in the level of alpha-ketoglutaric acid in leaves of *Phyllanthus simplex* (Retz.). *Comp. Physiol. Ecol.* 4: 35-37.
212. Negi, R. S. and T. M. Fakhir. 1988. Simplexine (14-hydroxy-4-methoxy-13, 14-dihydronorsecurinine): an alkaloid from *Phyllanthus simplex*. *Phytochemistry* 27: 3027-3028.
213. Komine, H., T. Takahashi, and S. Ayabe. 1996. Properties and partial purification of squalene synthase from culture of dandelion. *Phytochemistry* 42: 405-409.
214. Kim, C. J., J. S. Lim, and S. K. Cho. 1996. Anti-diabetic agents from medicinal plants inhibitory activity of *Schizonepeta tenuifolia* spikes on the diabttogenesis by streptozotocin in mice. *Arch. Pharmacol. Res.* Seoul 19: 441-446.
215. Tao, J., P. Tu, W. Xu, and D. Chen. 1999. Studies on chemical constituents and pharmacological effects of the stem of *Cynomorium songaricum* Rupr. *Zhongguo Zhongyao Zaxhi* 24: 292-294.
216. Ibrahim, N. A., S. E. El-Gengaihi, A. El-hamidi, S. Bashandy, and K. P. Svoboda. 1995. Chemical and biological evaluation of *Tamarindus indica* L. growing in Sudan. *Int. Symp. Medicinal Aromatic Plants XXIV Int. Hort. Congress, Kyoto, Japan.* 21-27 Aug., 1994. *Acta Hort.* 390: 51-57.
217. Syrchina, A. I., N. N. Pechurina, A. L. Vereshchagin, A. G. Gorshkov, I. E. Tsapalova, and A. A. Semenov. 1993. A chemical investigation of *Matteuccia struthiopteris*. *Chem. Nat. Compd.* 29: 535-536.
218. Seth, R., S. Dorjee, and P. Morisco. 1993. Chemical constituents of *Pedicularis longiflora* var. *tubiformis*. *Fitoterapia* 64: 375-376.
219. Meyre, S. C., T. C. Mora, M. W. Biavatti, A. R. S. Santos, M. J. Dal, R. A. Yunes, and F. V. Cechinel. 1998. Preliminary phytochemical and pharmacological studies of *Aleurites moluccana* leaves (L.) Willd. *Phytomedicine* 5: 109-113.
220. Qiao, B. L., C. D. Wang, C. F. Mi, F. X. Li, H. L. Shi, and J. Takashima. 1997. Separation and identification of the ilungianin A and B from the root of *Pimpinella thellungiana* Wolff. *Acta Pharm. Sin.* 32: 56-58.

221. Mel'nikova, N. and V. Smirnov. 1972. Iodine contents of herbage species. *Korma* 5: 44.
222. Puffe, D. and W. Zerr. 1989. The content of various secondary plant products in widespread weeds in grassland with particular regard to higher lying areas. *Eichhof-Berichte* No. A 11, 127 p.
223. Scehovic, J. 1988. Secondary metabolites in some grassland plants. *Schweiz. Landwirtsch. Forsch.* 27: 153-165.
224. Ahn, J. S., Y. S. Kwon, S. Ahn, and C. M. Kim. 1999. Anti-inflammatory constituents of *Polygonum bistorta*. *Korean J. Pharmacognosy* 30: 345-349.
225. Amoroso, V. B. 1988. Studies on medicinal ferns of the family Polypodiaceae. *Philipp. J. Sci.* 117: 1-15.
226. Wang, H. F., X. D. Li, Y. M. Chen, L. B. Yuan, and W. O. Foye. 1991. Radiation-protective and platelet aggregation inhibitory effects of five traditional Chinese drugs and acetylsalicylic acid following high-dose gamma-irradiation. *J. Ethnopharmacol.* 34: 2-3, 215-219.
227. Kuo, Y. H., S. Y. Li, M. D. Wu, R. L. Huang, and L. Kuo. 1999. A new anti-HBeAg lignan, kadsamarin A, from *Kadsura matsudai* and *Schizandra arisanensis*. *Chem. Pharm. Bull.* 47: 1047-1048.
228. Longland, A. C., M. K. Theodorou, R. Sanderson, S. J. Lister, C. J. Powell, and P. Morris. 1995. Non-starch polysaccharide composition and *in vitro* fermentability of tropical forage legumes varying in phenolic content. *Anim. Feed Sci. Technol.* 55: 3-4, 161-177.
229. Wu, R. S., S. C. Huang, M. T. Chen, and T. T. Jong. 1989. Structure, synthesis and cytotoxicity of spenone-A, a phenanthrene-1,4-quinone from *Sphenomeris biflora*. *Phytochemistry* 28: 1280-1281.
230. Jia, T., J. Li, S. Xie, and J. Zhang. 1996. Comparative research on the constituents of the volatile oil in the rhizome of *Cibotium barometz* (L.) J. Sm. and its processed products. *Zhongguo Zhongyao Zazhi* 21: 216-218.
231. Ahn, K., M. Hahm, E. Park, and H. Lee. 1998. Corosolic acid isolated from the fruit of *Crataegus pinnatifida* var. *psilosa* is a protein kinase C inhibitor as well as a cytotoxic agent. *Planta Med.* 64: 468-470.
232. Akihisa, T., Y. Matsubara, P. Ghosh, S. Thakur, N. Shimizu, T. Tamura, and T. Matsumoto. 1988. The 24 α - and 24 β -epimers of 24-ethylcholesta-5,22-dien-3 β -ol in two *Clerodendrum* species. *Phytochemistry* 27: 4, 1169-1172.
233. Ho, N. K. 1996. Traditional Chinese medicine and treatment of neonatal jaundice. *Singapore Med. J.* 37: 645-651.
234. Li, B. Q., T. Fu, Y. D. Yan, N. W. Baylor, F. Ruscetti, and H. F. Kung. 1993. Inhibition of HIV infection by baicalin: a flavonoid compound purified from Chinese herbal medicine. *Cell. Mol. Biol. Res.* 39: 119-124.
235. Fang, S. D., R. S. Xu, and Y. S. Gao. 1981. Some recent advances in the chemical studies of Chinese herbal medicine. *Am. J. Bot.* 68: 300-303.
236. Li, W. K., C. L. Chan, and H. W. Lueng. 2000. Liquid chromatography atmospheric pressure chemical ionization mass spectrometry as a tool for the characterization of anthraquinone derivative from Chinese herbal medicine. *J. Pharm. Pharmacol.* 52: 723-729.
237. Hamasaki, N., E. Ishill, K. Tominaga, Y. Texuka, T. Nagaoka, S. Kadota, T. Kuroki, and I. Yano. 2000. Highly selective antibacterial activity of novel alkyl quinolone alkaloids from a Chinese herbal medicine, Gosyuyu (Wu-Chu-Yu), against *Helicobacter pylori* *in vitro*. *Microbiol. Immunol.* 44: 9-15.

238. Wu, T. N., K. C. Yang, C. M. Wang, J. S. Lai, and K. N. Ko. 1996. Lead poisoning caused by contaminated cordyceps, a Chinese herbal medicine: two case reports. *Sci. Total Environ.* 182: 1-3, 193-195.
239. Numata, M., A. Yamamoto, A. Moribayashi, and H. Yamada. 1994. Antitumor components isolated from the Chinese herbal medicine *Coix lachryma-jobi*. *Plant Med.* 60: 356-359.
240. Ji, S. G., Y. F. Chai, G. Q. Zhang, Y. T. Wu, and X. P. Yin. 1999. Determination of tetraphydropalmatine in Chinese traditional medicine by nonaqueous capillary electrophoresis. *Electrophoresis* 20: 1904-1906.
241. Asano, K., J. Matsuishi, Y. Yu, T. Kasahara, and T. Hisamitsu. 1998. Suppressive effects of *Tripterygium wilfordii* Hook f. a traditional Chinese medicine, on collagen arthritis in mice. *Immunopharmacology* 39: 117-126.
242. Izumi, S., N. Ohno, T. Kawakita, K. Nomoto, and T. Yadomae. 1997. Wide range of molecular weight distribution of mitogenic substance(s) in the hot water extract of a Chinese herbal medicine, *Bupleurum chinense*. *Biol. Pharm. Bull.* 20: 759-764.
243. Lin, G., Y. P. Ho, P. Li, and X. G. Li. 1995. Puquiedinone, a novel 5- α -cevanine alkaloid from the bulbs of *Fritillaria puiqiensis*, and antitussive traditional Chinese medicine. *J. Nat. Prod. Lloydia* 58: 1662-1667.
244. Shi, D., S. He, Y. Jiang, and J. Qian. 1995. The effects of traditional Chinese medicine *Cistanche* species on the immune function and lipid peroxidation. *Acta Acad. Med. Shanghai* 22: 307-308.
245. Lin, H. W., G. Y. Han, and S. X. Liao. 1994. Studies on the active constituents of the Chinese traditional medicine *Polygonatum odoratum* (Mill.) Druce. *Yaoxue Xuebao* 29: 215-222.
246. Wei, M. J., X. Luo, X. Wang, and J. S. Zhu. 1991. Study of chemical pattern recognition as applied to quality assessment of the traditional Chinese medicine "Wei Ling Xian." *Acta Pharm. Sin.* 26: 772-776.
247. Rao, G. X., H. D. Sun, Z. W. Lin, and R. Y. Hu. 1991. Studies on the chemical constituents of the traditional Chinese medicine "Yun Qian-Hu" (*Peucedanum rubricaulis* Shan et Shch.). *Acta Pharm. Sin.* 26: 30-36.
248. Guo, P., Z. Li, Z. Hong, S. Liu, and T. Wu. 1991. Determination of berberine hydrochloride in traditional Chinese medicine containing *Coptis chinensis* Franch. by reversed phase high performance liquid chromatography. *J. West China Univ. Med. Sci.* 22: 90-92.
249. Kasuya, S., C. Goto, K. Koga, H. Ohtomo, N. Kagei, and G. Honda. 1990. Lethal efficacy of leaf extract from *Perilla frutescens* (traditional Chinese medicine) or perillaldehyde on *Anisakis* larvae *in vitro*. *Jpn. J. Parasitol.* 39: 220-225.
250. Baba, K., Y. Yoneda, M. Kozawa, E. Fujita, N. H. Wang, and C. Q. Yuan. 1989. Studies on Chinese traditional medicine "Fang-Feng". II. Comparison of several Fang-Feng by coumarins, chromones, and polyacetylenes. *Shoyakugaku Xasshi* 43: 216-221.
251. Kuang, H. X., R. Kasai, K. Ohtani, Z. S. Liu, C. S. Yuan, and O. Tanaka. 1989. Chemical constituents of pericarps of *Rosa davurica* Pall., a traditional Chinese medicine. *Chem. Pharm. Bull. (Tokyo)* 37: 2232-2233.
252. Ishida, H., T. Umino, K. Tsuji, and T. Kosuge. 1989. Studies on the antihemostatic substances in herbs classified as hemostatics in traditional Chinese medicine. I. On the antihemostatic principles in *Sophora japonica* L. *Chem. Pharm. Bull. (Tokyo)* 37: 1616-1618.

253. Mizutani, K., M. Yuda, O. Tanaka, Y. I. Saruwatari, T. Fuwa, M. R. Jia, Y. K. Ling, and X. F. Fu. 1988. Chemical studies on Chinese traditional medicine, Dangshen. I. Isolation of (Z)-3- and (E)-2-hexenyl-beta-D-glucosides. *Chem. Pharm. Bull. (Tokyo)* 36: 2689-2690.
254. Chu, C. and S. Yang. 1986. Thin-layer chromatographic differentiation of *Cinnamomum cassia* in Chinese traditional medicine. *Bull. Chin. Materia Med.* 11: 609-611.
255. Ji, X. H., Y. Li, H. W. Liu, Y. N. Yan, and J. S. Li. 2000. Determination of alkaloids in rhizoma of some *Mahonia* plants by HPCE. *Acta Pharm. Sin.* 35: 220-223.
256. Rogelj, B., T. Popovic, A. Ritonja, B. Strukelj, and J. Brzin. 1998. Chelidocystatin, a novel phytocystatin from *Chelidonium majus*. *Phytochemistry* 49: 1645-1649.
257. Yoshino, M., M. Ito, H. Okajima, M. Haneda, and K. Murakami. 1997. Role of baicalein compounds as antioxidant in the traditional herbal medicine. *Biomed. Res.* 18: 349-352.
258. Lin, Y. C., T. Jin, X. Y. Wu, Z. Q. Huang, J. S. Huang, J. S. Fan, and W. L. Chan. 1997. A novel bisesquiterpenoid, biatractylolide, from the Chinces herbal plant *Atractylodes macrocephala*. *J. Nat. Prod.* 60: 27-28.
259. Sakurai, M. H., T. Matsumoto, H. Kiyohara, and H. Yamada. 1996. Detection and tissue distribution of anti-ulcer pectic polysaccharides from *Bupleurum falcatum* by polyclonal antibody. *Planta Med.* 62: 341-346.
260. Kinoshita, K., T. Kawai, T. Imaizume, Y. Akita, K. Koyama, and K. Takahashi. 1996. Anti-emetic principles of *Inula linariaefolia* flowers and *Forsythia suspensa* fruits. *Phytomedicine* 3: 51-58.
261. Wong, R. N. S., N. K. Mak, W. T. Choi, and P. T. W. Law. 1995. Increased accumulation of trichosanthin in *Trichosanthes kirilowii* induced by microorganisms. *J. Exp. Bot.* 46: 284, 355-358.
262. Oyama, T., T. Isono, Y. Suzuki, and Y. Hayakawa. 1994. Anti-nociceptive effects of *Aconiti* tuber and its alkaloids. *Am. J. Chin. Med.* 22: 175-182.
263. Kasai, S., S. Watanabe, J. Kawabata, S. Tahara, and J. Mizutani. 1992. Antimicrobial catechin derivatives of *Agrimonia pilosa*. *Phytochemistry* 31: 787-789.
264. Kang, R., R. Helms, M. J. Stout, H. Jaber, Z. Q. Chen, and T. Nakatsu. 1992. Antimicrobial activity of the volatile constituents of *Perilla frutescens* and its synergistic effects with polygodial. *J. Agric. Food Chem.* 40: 2328-2330.
265. Ishiguro, K., M. Yamaki, M. Kashiwara, S. Takagi, and K. Isoli. 1990. A chromene from *Hypericum japonicum*. *Phytochemistry* 29: 1010-1011.
266. Yamade, H., K. S. Ra, H. Kiyohara, J. C. Cyong, H. C. Yang, and Y. Otsuka. 1988. Characterization of anti-complementary neutral polysaccharides from the roots of *Bupleurum falcatum*. *Phytochemistry* 27: 3163-3168.
267. Han, J. and D. H. K. Luan. 1984. Sow abortion caused by feeding *Cynanchum auriculatum*. *Anim. Husb. Vet. Med. Humu Yu Shouyi* 16: 266.
268. Tong, C. C. 1995. Nutraceutical properties of the mushroom ganoderma. *Tunas Buletin Maklumat Pertanian Malaysia* 15: 1-6.
269. Wei, Z., J. Pan, and Y. Li. 1992. Artemisinin G: a sesquiterpene from *Artemisia annua*. *Plant Med. (Germany)* 58: 3090.
270. Jiang, Z., S. Chen, and J. Zhou. 1988. Study on chemical constituent of *Aconitum austroyunnanense* (I). *Acta Bot. Yunnanica (China)* 10: 317-323.
271. Farnsworth, N. R. 1999. NAPRALERT: natural products alert database. Program for collaborative research in the Pharmaceutical Science Department of Medicinal Chem. Pharmacognosy, College Pharmacy, University of Illinois, Chicago.

272. Zhang, S. and K. Cheng. 1989. *Angelica sinensis* (Oliv.) Diels: *in vitro* culture, regeneration, and the production of medicinal compounds. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 7. Medicinal and Aromatic Plants II*. Springer-Verlag. New York. p. 1-22.
273. Misik, V., L. Bezakova, L. Malekova, and D. Kostalova. 1995. Lipoxygenase inhibition and antioxidant properties of protoberberine and aporphine alkaloids isolated from *Mahonia aquifolium*. *Planta Med.* 61: 372-373.
274. Muller, K. and K. Ziereis. 1994. The antipsoriatic *Mahonia aquifolium* and its active constituents. I. Pro- and antioxidant properties and inhibition of 5-lipoxygenase. *Planta Med.* 60: 421-424.
275. Mallet, J. F., C. Cerrati, E. Ucciani, J. Gamisans, and M. Gruber. 1994. Antioxidant activity of plant leaves in relation to their alpha-tocopherol content. *Food Chem.* 49: 61-65.
276. Woldemariam, T. Z., J. M. Betz, and P. J. Houghton. 1997. Analysis of aporphine and quinolizidine alkaloids from *Caulophyllum thalictroides* by densitometry and HPLC. *J. Pharm. Biomed. Anal.* 15: 839-843.
277. Heptinstall, S. and D. V. C. Awang. 1998. Feverfew: a review of its history, its biological and medicinal properties, and the status of commercial preparations of the herb. In: Lawsib, L. D. and R. Bauer (eds.). *Phytomedicines of Europe, Chemistry and Biological Activity*. American Chemical Society. Washington, D.C. p. 158-175.
278. Shahat, A. A., S. I. Ismail, F. N. Hammouda, and S. A. Azzam. 1998. Anti-HIV activity of flavonoids and proanthocyanidins from *Crataegus sinatica*. *Phytomedicine* 5: 133-136.
279. Sticher, O. and B. Meier. 1998. Hawthorn (*Crataegus*): biological activity and new strategies for quality control. In: Lawsib, L. D. and R. Bauer (eds.). *Phytomedicines of Europe, Chemistry and Biological Activity*. American Chemical Society. Washington, D.C. p. 241-262.
280. Henry, M., A. M. Edy, P. Desmarest, and J. Du Manuir. 1991. *Glycyrrhiza glabra* L. (licorice): cell culture, regeneration, and the production of glycyrrhizin. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III*. Springer-Verlag. New York. p. 270-282.
281. Ihtantola, V. A., J. Summanen, and H. Kankaanranta. 1997. Anti-inflammatory activity of extracts from leaves of *Phyllanthus emblica*. *Planta Med.* 63: 518-524.
282. Brinda, S., U. W. Smitt, V. George and P. Pushpangadan. 1998. Angiotensin converting enzyme (ACE) inhibitors from *Jasminum azoricum* and *Jasminum grandiflorum*. *Planta Med.* 64: 246-250.
283. Jonard, R. 1989. *Jasminum* spp. (jasmine): micropropagation and the production of essential oils. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 7. Medicinal and Aromatic Plants II*. Springer-Verlag. New York. p. 315-331.
284. Small, E. 1999. New crops for Canadian agriculture. In: Janick, J. (ed.). *Perspectives on New Crops and New Uses*. ASHS Press. Alexandria, VA. p.15-52.
285. Muller, D., A. Carnat, and J. L. Lamaison. 1991. *Fucus*: comparative study of *Fucus vesiculosus* L., *Fucus serratus* L. and *Ascophyllum nodosum* Le Jolis. *Plantes Med. Phytother.* 25: 194-201.
286. Ortega-Calvo, J. J., C. Mazuelos, B. Hermosin, and C. Saiz-Jimenez. 1993. Chemical composition of Spirulina and eukaryotic algae food products marketed in Spain. *J. Appl. Phycol.* 5: 425-435.
287. Teas, J. 1973. The dietary intake of *Laminaria*, a brown seaweed, and breast cancer prevention. *Nutr. Cancer* 4: 217-222.

288. Walkiw, O. and D. E. Douglas. 1975. Health food supplements prepared from kelp — a source of elevated urinary arsenic. *Clin. Toxicol.* 8: 325-331.
289. Murray, M. T. 1995. *The Healing Power of Herbs*. Prima Publishing. Rocklin, CA. 410 p.
290. Turner, N. J. 1982. Traditional use of devil's-club (*Oplopanax horridus*; Araliaceae) by native peoples in western North America. *J. Ethnobiol.* 2: 17-38.
291. Moes, A. 1966. A parallel study of the chemical composition of *Polygala senega* and of "*Securidaca longepedunculata*" Fres. var. *parvifolia*, a Congolese polygalacea. *J. Phar. Belg.* 21: 347-362.
292. Takeda, O., S. Azuma, H. Mizukami, T. Ikenaga, and H. Ohashi. 1986. Cultivation of *Polygala senega* var. *latifolia*. II. Effect of soil moisture content on the growth and senegin content. *Shoyakugaku Zasshi* 40: 434-437.
293. Zapesochynaya, G. G. and V. A. Kurkin. 1983. The flavonoids of the rhizomes of *Rhodiola rosea*. II. A flavonolignan and glycosides of herbacetin. *Chem. Nat. Comp.* 19: 21-29.
294. Stevens, J. F., E. T. Elema, A. Bolck, and H. Hart. 1996. Flavonoid variation in Eurasian *Sedum* and *Sempervivum*. *Phytochemistry* 41: 503-512.
295. Whiterup, K. M., S. A. Look, M. W. Stasko, T. J. Ghiorzi, G. M. Muschik, and G. M. Cragg. 1990. *Taxus* spp. needles contain amounts of taxol comparable to the bark of *Taxus brevifolia*: analysis and isolation. *J. Nat. Prod.* 53: 1249-1255.
296. Wickremesinha, E. R. M. and R. N. Arteca. 1998. *Taxus* species (yew): *in vitro* culture, and the production of taxol and other secondary metabolites. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry* 41. Medicinal and Aromatic Plants X. Springer-Verlag. New York. p. 415-442.
297. Keplinger, K., G. Laus, M. Wurm, M. P. Dierich, and H. Teppner. 1999. *Uncaria tomentosa* (Willd.) DC: ethnomedicinal use and new pharmacological, toxicological and botanical results. *J. Ethnopharmacol.* 64: 23-34.
298. Obregon Vilches, L. E. 1995. Cat's Claw. 3rd ed. Institute de Fitoterapia Americano. Lima, Peru. 169 p.
299. Wurm, M., L. Kacani, G. Laus, K. Keplinger, and M. P. Dierich. 1998. Pentacyclic oxindole alkaloids from *Uncaria tomentosa* induce human endothelial cells to release a lymphocyte proliferation regulating factor. *Planta Med.* 64: 701-704.
300. Rogiers, S. Y. and N. R. Knowles. 1997. Physical and chemical changes during growth, maturation, and ripening of saskatoon. *Can. J. Bot.* 75: 1215-1225.
301. Fraisse, D., A. Carnat, and J. L. Lamaison. 1996. Polyphenolic composition of the leaf of bilberry. *Am. Pharm. Fr.* 54: 280-283.
302. Rogers, R. D. (ed.). 1999. Sundew, Moonwort, Medicinal Plants of the Prairies. Vol. 3. R. D. Roger. Edmonton, Alberta. 181 p.
303. Rogers, R. D. 2000. Sundew, Moonwort, Medicinal Plants of the Prairies. Vol. 4. R. D. Roger. Edmonton, Alberta. 237 p.
304. Awang, D. 1997. Saw palmetto, african prune and stinging nettle for benign prostatic hyperplasic (BPH). *Can. Pharm. J. Nov.* 1997. p. 37-40, 43-44, 60.
305. Baresova, H. 1988. *Centaurium erythraea* Rafn: micropropagation and the production of secoiridoid glucosides. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry* 4. Medicinal and Aromatic Plants I. Springer-Verlag. New York. p. 350-366.
306. Fuentes-Granados, R. G., M. P. Widrechner, and L. A. Wilson. 1998. An overview of *Agastache* research. *J. Herbs Spices Med. Plants* 6: 69-97.
307. Shishoo, C. J., S. A. Shah, I. S. Rathod, and S. G. Patel. 1997. Determination of vitamin C content of *Phyllanthus emblica* and Chyavanprash. *Indian J. Pharm. Sci.* 59: 268-270.

308. Van den Berg, A. J. J. and R. P. Labadie. 1988. *Rhamnus* spp.: *in vitro* production of anthraquinones, anthrones, and dianthrones. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 4. Medicinal and Aromatic Plants I*. Springer-Verlag, New York. p. 513-528.
309. Winterhoff, H. 1998. *Vitex agnus-castus* (chaste tree): pharmacological and clinical data. In: Lawsib, L. D. and R. Bauer (eds.) *Phytomedicines of Europe, Chemistry and Biological Activity*. American Chemical Society, Washington, D.C. p. 299-307.
310. Zhao, X., J. Wang, M. Yang, and X. Pan. 1996. Study on the chemical constituents of the essential oil of berries of *Physalis pubescens*. *J. NorthEast Forestry Univ.* 24: 94-98.
311. Arenz, A., M. Klein, K. Fiehe, J. Gross, C. Drewke, T. Hemscheidt, and E. Leistner. 1996. Occurrence of neurotoxic 4'-O-methylpyridoxine in *Ginkgo biloba* leaves, Ginkgo medications and Japanese ginkgo food. *Planta Med.* 62: 548-551.
312. Henry, M., A. M. Edy, P. Desmarest, and J. du Manoir. 1991. *Glycyrrhiza glabra* L. (licorice): cell culture, regeneration, and the production of glycyrrhizin. In Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 15. Medicinal and Aromatic Plants III*. Springer-Verlag, New York. p. 270-282.
313. Keplinger, K., G. Laus, M. Wurm, M. P. Dierich, and H. Teppner. 1999. *Uncaria tomentosa* (Willd.) DC. ethnomedicinal use and new pharmacological, toxicological and botanical results. *J. Ethnopharmacol.* 64: 23-34.
314. Srivastava, K. C. and N. Malhotra. 1991. Acetyl eugenol, a component of oil of cloves (*Syzygium aromaticum* L.) inhibits aggregation and alters arachidonic acid metabolism in human blood platelets. *Prostaglandins Leukot. Essent. Fatty Acid* 42: 73-81.
315. Yokoyama, M. and S. Inomata 1998. *Catharanthus roseus* (periwinkle): *in vitro* culture, and high-level production of arbutin by biotransformation. In: Bajaj, Y. P. S. (ed.). *Biotechnology in Agriculture and Forestry 41. Medicinal and Aromatic Plants X*. Springer-Verlag, New York. p. 67-80.
316. Fujimoto, Y., A. Soemartono, and M. Sumatra. 1988. Sesquiterpene lactones from *Blumea balsamifera*. *Phytochemistry* 27: 1109-1111.
317. Lin, Y. C., K. G. Long, and Y. J. Deng. 1988. Studies on the chemical constituents of the Chinese medicinal plant *Blumea balsamifera*. *Acta Scientiarum Naturalium Univ. Sunyatseni* 2: 77-80.
318. Fukuyama, Y., Y. Kiriya, and M. Kodama. 1993. Concise synthesis of belamcandaquinones A and B by palladium (0) catalyzed cross-coupling reaction of bromoquinone with arylboronic acids. *Tetrahedron Lett.* 34: 7637-7638.
319. Ma, L., Z. W. Song, and F. Wu. 1996. Determination of five isoflavones in *Belamcanda chinensis* by RP-HPLC. *Yaoxue Xuebao* 31: 945-949.
320. Takahashi, K., Y. Hoshino, S. Suzuki, Y. Hano, and T. Nomura. 2000. Iridals from *Iris tectorum* and *Belamcanda chinensis*. *Phytochemistry* 53: 925-929.
321. Beerhues, L. and U. Berger. 1994. Xanthones in cell suspension cultures of two *Centaurium* species. *Phytochemistry (Oxford)* 35: 1227-1231.
322. Beerhues, L. 1996. Benzophenone synthase from cultured cells of *Centaurium erythraea*. *FEBS Lett.* 383: 264-266.
323. Nikolova, D. B. and N. Handjieva. 1996. Quantitative determination of swertiamarin and gentiopicroside in *Centaurium erythraea* and *C. turcicum* by densitometry. *Phytochem. Anal.* 7: 140-142.
324. Peumans, W. J., H. C. Winter, V. Berner, and L. Van-Leuven. 1997. Isolation of a novel plant lectin with an unusual specificity from *Calystegia sepium*. *Glycoconjugate J.* 14:259-265.

325. Goldmann, A., B. Message, D. Tepfer, R. J. Molyneux, O. Duclos, F. D. Boyer, and A. D. Elbein. Biological activities of the nortropane alkaloid, calystegine B2, and analogs: structure-function relationships. *J. Nat. Prod.* 59: 1137-1142.
326. Kapadia, G. J., Y. N. Shuykla, and S. P. Basak. 1978. Melovinone, an open chain analogue of melochinone from *Melochia tomentosa*. *Phytochemistry* 17: 1444-1445.
327. Kapadia, G. J. and Y. N. Shukla. 1993. Ju899Melosatin D: a new isatin alkaloid from *Melochia tomentosa* roots. *Plants Med.* 59: 568-569.
328. Harvala, E., J. Exner, and H. Becher. 1984. Flavonoids of *Loranthus europaeus*. *J. Nat. Prod.* 47: 1054-1055.
329. Berg, T., S. Damtoft, S. R. Jensen, B. J. Nielsen, and L. F. Rickelt. 1985. Iridoid glucosides from *Pedicularis*. *Phytochemistry* 24: 491-493.
330. Konoshima, T., M. Takasaki, M. Kozuka, H. Tokuda, H. Nishino, E. Matsuda, and M. Nagai. 1997. Anti-tumor promoting activities of isoflavonoids from *Wisteria brachybotrys*. *Biol. Pharm. Bull.* 20: 865-868.
331. Konoshima, T., M. Kozuka, M. Haruna, and K. Ito. 1991. Constituents of leguminous plants. XIII. New triterpenoid saponins from *Wisteria brachybotrys*. *J. Nat. Prod.* 54: 830-836.
332. Konoshima, T., M. Kozuka, M. Haruna, K. Ito, and T. Kimura. 1989. Studies on the constituents of leguminous plants. XI. The structures of new triterpenoids from *Wisteria brachybotrys* Sieb. et Zucc. *Chem. Pharm. Bull.* 37: 1550-1553.
333. Perdue, R. E., Jr. 1977. *Thalictrum dasycarpum*: source of the antitumor agent thalicarpine. *Lloydia* 40: 607.
334. <http://www.aabhealth.com/herbsdefined.htm>
335. <http://dbhs.wvusdk12ca.us/chem.history>
336. <http://www.botanical.com>
337. Ishikura, N. and S. Sato. 1977. Isolation of new kaempferol glycosides from the leaves of *Euonymus*. *Bot. Mag. Tokyo* 90: 83-87.
338. Yamada, K., Y. Shizuri, and Y. Hirata. 1978. Isolation and structures of new alkaloid alatamine and an insecticidal alkaloid wilfordine. *Tetrahedron* 34: 1915-1920.
339. Ishiwata, H., Y. Shizuri, and K. Yamada. 1983. Three sesquiterpene alkaloids from *Euonymus alatus* forma *striatus*. *Phytochemistry* 22: 2839-2841.
340. Hikino, H., M. Tamada, and K. Y. Yen. 1978. Mallorepine, eyano-gamma-pyridone from *Mallotus repandus*. *Plants Med.* 33: 385-388.
341. Saijo, R., G. Nonaka, and I. Nishioka. 1989. Tannins and related compounds LXXX-VII. Isolation and characterization of four new hydrolyzable tannins from the leaves of *Mallotus repandus*. *Chem. Pharm. Bull.* 37: 2624-2630.
342. Kohli, D. V. 1988. A new saponin, stigmasta-5,24(28)-diene-3 β -O-beta-D-galactopyranoside, from the seeds of *Sesbania sesban*. *Fitoterapia* 59: 478-479.
343. El-Sayed, N. H. 1991. A rare kaempferol trisaccharide anti-tumor promoter from *Sesbania sesban*. *Pharmazie* 46: 679-680.
344. Marston, A., K. Hostettmann, J. B. Harborne, and F. A. Tomas-Barberan. 1991. Plant saponins: chemistry and molluscicidal action. Ecological chemistry biochemistry plant terpenoids. *Proc. Phytochem. Soc. Europe* 31. p. 264-286.
345. Bown, D. 1995. *Encyclopedia of Herbs & Their Uses*. The Reader's Digest Assn. (Canada) Ltd. Westmount, QC. 424 p.
346. <http://www.botanical.com/botanical/mgmh/s/sancom13.html>
347. Willard, T. 1992. *Edible and medicinal plants of the rocky mountains and neighbouring territories*. Wild Rose College of Natural Healing, Ltd. Calgary, AB. 278 p.
348. Bremness, L. 1994. *Herbs*. Dorling Kindersley Ltd. London., 304 p.

349. Hau, D. M., K. T. Chen, M. Wang, I. Lin, and W. C. Chen. 1996. Protective effects of *Gynostemma pentaphyllum* in gamma-irradiated mice. *Am. J. Chin. Med.* 24: 83-92.
350. Mei, K. F., X. Shen, Y. M. Ye, and H. M. Fei. 1993. Transformation of *Gynostemma pentaphyllum* by *Agrobacterium rhizogenes* and saponin production in hairy root cultures. *Acta Bot. Sin.* 95: 626-631.
351. Akihisa, T., N. Shimizu, P. Ghosh, S. Thakur, F. U. Rosenstein, T. Tamura, and T. Matsumoto. 1987. Sterols of the Cucurbitaceae. *Phytochemistry* 26: 1693-1706.
352. Zhang, J. S., Z. Tian, and Z. C. Lou. 1989. Quality evaluation of twelve species of Chinese ephedra (Ma Huang). *Acta Pharm. Sin.* 24: 865-871.
353. Nishiyama, N., H. Saito, and P. J. Chu. 1995. Beneficial effects of biota, a traditional Chinese herbal medicine, on learning impairment induced by basal forebrain-lesion in mice. *Biol. Pharm. Bull.* 18: 1513-1517.
354. Mi, H. M., C. G. Li, Z. W. Su, N. P. Wang, J. X. Zhao, and Y. G. Jiang. 1987. Studies on chemical constituents and antifungal activities of essential oil from *Oplopanax elatus* Nakai. *Acta Pharm. Sin.* 22: 549-552.
355. Takino, Y., M. Koshioka, M. Shlokawa, Y. Ishil, S. Maruyama, M. Higashino, and T. Hayashi. 1979. Quantitative determination of glycyrrhizic acid liquorice roots and extracts by TLC-densitometry. *Hippokrates Verlag GmbH* 36: 74-78.
356. Killackey, J., M. S. F. Ross, and T. D. Turner. 1976. The determination of beta-glycyrrhethinic acid in liquorice by high pressure liquid chromatography. *Plant Med.* 30: 310-316.
357. Larry, D. 1973. Gas-chromatographic determination of β -asarome, a component of oil of calamus, in flavors and beverages. *J. Assn. Off. Anal. Chem.* 56: 1281-1283.
358. Pichon, P. 1971. The anthocyanin pigments of *Epilobium rosmarinifolium* Haenke (Onagraceae). *Plant Med.* 5: 115-117.
359. Luning, B. 1964. Studies of species Orchidaceae alkaloids. I. Screening of species for alkaloids. *Acta Chem. Scand.* 18: 1507-1516.
360. Bogнар, R. 1965. Steroid alkaloid glycosides. VIII. Review of specific investigations on the occurrence of steroid alkaloid glycosides in genus *Solanum*. *Pharmazie* 20: 40-42.
361. Sohreiber, K. 1963. On the appearance of glycoside alkaloid in tuber-bearing species of the genus *Solanum* L. *solanum alkaloids*. XXVII. *Kulturpflanze* 11: 422-450.
362. Duke, J. A. 2000. Returning to our medicinal roots. *Mother Earth News*. Dec.-Jan. 2000. p. 23-24, 26-33.
363. Yarnell, E. 2000. The botanical roots of pharmaceutical discovery. *Alternative & Complementary Therapies*. June 2000, p. 125-128.
364. Fang, S. D., R. S. Xu, and Y. S. Gao. 1980. Some recent advances in the chemical studies of Chinese herbal medicine. *Am. J. Bot.* 68: 300-303.
365. Perharic, L., D. Shaw, C. Leon, V. S. G. Murray, and P. De-Smet. 1995. Possible association of liver damage with the use of Chinese herbal medicine for skin disease. *Vet. Hum. Toxicol.* 37: 562-566.
366. Zhu, D. Y., D. L. Bai, and X. C. Tang, 1996. Recent studies on traditional Chinese medicinal plants. *Drug Dev. Res.* 39: 147-157.
367. Widrlechner, M. and S. Foster. 1991. Chinese medicinal plants in the U.S. National Plant Germplasm System. *Herb Spice Med. Plant Dig.* 9(4): 1-5.
368. Borchers, A. T., R. M. Hackman, C. L. Keen, J. S. Stern, and M. Eric Gershwin. 1997. Complementary medicine: a review of immunomodulatory effects of Chinese herbal medicines. *Am. J. Clin. Nutr.* 66: 1303-1312.

369. Zhu, D. Y., D. L. Bai, and X. C. Tang. 1997. Recent studies on traditional Chinese medicinal plants. *Drug Dev. Res.* 39: 147-157.
370. Nortier, J. L., M. M. Martinez, H. H. Schmeiser, V. M. Arlt, C. A. Bieler, M. Petein, M. F. Depierreux, L. De Pauw, D. Abramowicz, P. Vereerstraeten, and J. L. Vanherweghem. 2000. Urothelial carcinoma associated with the use of a Chinese herb (*Aristolochia fangchi*). *N. Engl. J. Med.* 342: 1686-1692.
371. Brekhman, I. I. and M. A. Grinevitch. 1981. Oriental medicine: a computerized study of complex recipes and their components: analysis of recipes intended to cure certain disease. *Am. J. Chin. Med.* 9(1): 34-38.
372. Shibata, S. 1979. The chemistry of Chinese drugs. *Am. J. Chin. Med.* 7(2): 103-141.
373. Cheng, J. T. 2000. Review: drug therapy in Chinese traditional medicine. *J. Clin. Pharmacol.* 40: 445-450.
374. Chen, J. K. 2000. Nephropathy associated with the use of *Aristolochia*. *HerbalGram* 48: 44-45.
375. Tomlinson, B., T. Y. K. Chan, J. C. N. Chan, J. A. J. H. Critchley, and P. P. H. But. Toxicity of complementary therapies: an Eastern perspective. *J. Clin. Pharmacol.* 40: 451-456.
376. Lambert, J., J. Srivastava, and N. Vietmeyer. 1997. Medicinal Plants, rescuing a global heritage. World Bank Technical Paper No. 355. 61 p.
377. Tang, J. L., S. Y. Shan, and E. Ernst. 1999. Review of randomized controlled trials of traditional Chinese medicine (letter). *Br. Med. J.* 319: 160-161.
378. Koo, J. and S. Arain. 1998. Traditional Chinese medicine for the treatment of dermatologic disorders. *Arch. Dermatol.* 134: 1388-1393.
379. Fruehauf, H. 1999. Chinese medicine in crisis. *J. Chin. Med.* 61: 6-14.
380. Lahans, T. 2000. Integrated medicine: the interface between oriental and conventional medicine. *J. Naturopathic Med.* 7: 28-33.
381. Ninomiya, H., T. Mitsuma, M. Takara, T. Yokozawa, K. Terasawa, and H. Okuda. 1998. Effects of the oriental medical prescription Wen-Pi-Tang in patients receiving dialysis. *Phytomedicine* 5: 245-252.
382. Bensoussan, A., N. J. Tally, M. Hing, R. Menzies, A. Guo, and M. Ngu. 1998. Treatment of irritable bowel syndrome with a Chinese herbal medicine. *J.A.M.A.* 280: 1585-1589.
383. Monmaney, T. 1998. A dose of caution. *The Los Angeles Times*. Sept. 1, 1998.
384. Eisenberg, D. M., R. C. Kessler, C. Foster, F. E. Norlock, D. R. Calkins, and T. L. Delbanco. 1993. Unconventional medicine in the United States: prevalence, costs, and patterns of use. *N. Engl. J. Med.* 328: 246-252.
385. Marwick, C. 1995. Growing use of medicinal botanicals forces assessment by drug regulators. *J.A.M.A.* 273: 607-609.
386. Frankel, E. N., J. Kanner, J. B. German, E. Parks, and J. E. Kinsella. 1993. Inhibition of oxidation of human low-density lipoprotein by phenolic substances in red wine. *Lancet* 341: 454-457.
387. Ramarathnam, N., T. Osawa, H. Ochi, and S. Kawakishi. 1995. The contribution of plant food antioxidants for human health. *Trend. Food Sci. Technol.* 6: 75-82.
388. Farnsworth, N. R. 1990. Bioactive Compounds from Plants. John Wiley & Sons. Chichester, U.K. p. 2-14.
389. Reid, D. P. 1986. Chinese Herbal Medicine. Shambhala Publications. Boston, MA. 174 p.
390. Tao, S. and P. E. Lipsky. 2000. The Chinese anti-immunosuppressive herbal remedy *Tripterygium wilfordii* Hook F. Complement. Altern. Ther. Rheum. Dis. II 26(1): 29-50.

391. Anonymous. 1992. Rediscovering wormwood; qinghaosu for malaria. *Lancet*. March 14, 1992. p. 649-651.
392. J. Vanherwegheum. 1993. Rapidly progressive interstitial renal fibrosis in young women: association with slimming regimen including Chinese herbs. *Lancet* 341: 387-391.
393. E. O. Espinoza. 1995. Arsenic and mercury in traditional Chinese herbal balls. *N. Engl. J. Med.* 333: 803-804.
394. Hoffman, S. L. 1996. Artemether in severe malaria — still too many deaths. *N. Engl. J. Med.* 335: 124-125.
395. Day, M. 1996. Malaria falls to herbal remedy. *New Scientist*. July 13, 1996, p. 4.
396. Ernst, E. 1998. Harmless herbs? A review of the recent literature. *Am. J. Med.* 104: 170-178.
397. A. Bensoussan. 1998. Treatment of irritable bowel syndrome with Chinese herbal medicine. *J.A.M.A.* 280: 1585-1589.
398. Vimala, S. 1999. Anti-tumour promoter activity in Malaysian ginger rhizobia used in traditional medicine. *Br. J. Cancer* 80: 110-116.
399. Miller, L. G. 1998. Herbal medicinals. *Arch. Intern. Med.* 158: 2200-2011.
400. Havel, R. J. 1999. Dietary supplement or drug? The case of chloestin. *Am. J. Clin. Nutr.* 69: 175-176.
401. Bok, J. W., L. Lermer, J. Chilton, H. G. Klingeman, and G. H. N. Towers. 1999. Anti-tumor sterols from the mycelia of *Cordyceps sinensis*. *Phytochemistry* 51: 891-898.
402. Yong-Lu, L., L. Yin, J. W. Yang, and C. X. Liu. 1997. Studies on pharmacological activities of cultivated *Cordyceps sinensis*. *Phytother. Res.* 11: 237-239.
403. Kim, S. H., Y. S. Kim, C. K. Lee, and S. S. Han. 1999. *In vitro* chemopreventive effects of plant polysaccharides (*Aloe barbadensis*, *Lentinus edodes*, *Ganoderma lucidum* and *Coriolus versicolor*). *Carcinogenesis* 20: 1637-1640.
404. Eo, S. K. 1999. Antiviral activities of various water and methanol soluble substances isolated from *Ganoderma lucidum*. *J. Ethnopharmacol.* 68: 129-136.
405. Conney, A. H., Y. P. Lu, Y. R. Lou, J. G. Xie, and M. T. Huang. 1999. Inhibitory effect of green and black tea on tumor growth. *Proc. Soc. Exp. Biol. Med.* 220: 229-233.
406. Chung, F. L. 1999. The prevention of lung cancer induced by a tobacco-specific carcinogens in rodents by green and black tea. *Proc. Soc. Exp. Biol. Med.* 220: 244-248.
407. Zhu, M., Q. Chang, L. K. Wong, F. S. Chong, and R. C. Li. 1999. Triterpene antioxidants from *Ganoderma lucidum*. *Phytotherapy* 13: 529-531.
408. Lee-Huang, S., H. C. Chen, P. L. Huang, A. Bourinbaiai, H. I. Huang, and H. Kung. 1995. Anti-HIV and anti-tumor activities of recombinant MAP30 from bitter melon. *Gene* 161: 151-156.
409. Yang, G. Y., J. Liao, K. Kim, E. J. Yurkow, and C. S. Yang. 1998. Inhibition of growth and induction of apoptosis in human cancer cell lines by tea polyphenols. *Carcinogenesis* 19: 611-616.
410. Awe, S. O., O. A. Olajide, and J. M. Makinde. 1998. Inhibitory effects of isoflavones in roots of *Astragalus membranaceus* Bunge. (*Astragali radix*) on lipid peroxidation by reactive oxygen species. *Phytother. Res.* 12: 59-61.
411. Zheng, R. L., J. H. Kang, F. Y. Chen, P. F. Wang, J. G. Ren, and Q. L. Liu. 1997. Antioxidative components isolated from the roots of *Astragalus membranaceus* Bunge. (*Astragali radix*). *Phytother. Res.* 11: 603-605.
412. Zhu, J. S., G. M. Halpern, and K. Jones. 1998. The scientific rediscovery of an ancient Chinese herbal medicine: *Cordyceps sinensis*. *I. J. Altern. Complement. Med.* 4: 289-303.

413. Chen, Y. J., M. S. Shiao, S. S. Lee, and S. Y. Wang. 1997. Effect of *Cordyceps sinensis* on the proliferation and differentiation of human leukemic U937 cells. *Life Sci.* 60: 2349-2359.
414. Nakamura, K., Y. Yamaguchi, S. Kagota, Y. M. Kwon, K. Shinozuka, and M. Kunitomo. 1999. Inhibitory effect of *Cordyceps sinensis* on spontaneous liver metastasis of Lewis lung carcinoma and B16 melanoma cells in syngeneic mice. *Jpn. J. Pharmacol.* 79: 335-341.
415. Ng, C. R. A. 1997. Polysaccharopeptide from *Coriolus versicolor* has potential for use against human immunodeficiency virus type I infection. *Life Sci.* 60: 383-387.
416. Kobayashi, H., K. Matsunaga, Y. and Oguchi. 1995. Antimetastatic effects of PSK (krestin), a protein bound polysaccharide obtained from basidiomycetes: an overview. *Cancer Epidemiol. Biomarkers Prev.* 4: 275-281.
417. Ng, T. B. 1998. A review of research on the protein-bound polysaccharide (polysaccharopeptide, PSP) from the mushroom *Coriolus versicolor* (Basidiomycetes: Polyporaceae). *Gen. Pharmacol.* 30: 1-4.
418. Collins, R. A. 1997. Polysaccharopeptide from *Coriolus versicolor* has potential for use against human immunodeficiency virus type I infection. *Life Sci.* 60: 383-387.
419. Naito, T., K. Niitsu, Y. Ikeya, M. Okada, and H. Mitsuhashi. 1992. A phthalide and 2-farnesyl-6methyl benzoquinone from *Ligusticum chuangxiong*. *Phytochemistry* 31: 1787-1789.
420. Naito, T., T. Katsuhara, K. Niitsu, Y. Ikeya, M. Okada, and H. Mitsuhashi. 1992. Two phthalides from *Ligusticum chuangxiong*. *Phytochemistry* 31: 639-642.
421. Gao, Z. and F. H. Meng. 1993. Effect of *Fagopyrum cymosum* root on clonal formation of four human tumor cells. *Chung Kuo Chung Yao Tsa Chih* 18: 498-500.
422. Lee, J. S., Y. S. Cho, E. J. Park, K. J. Oh, W. K. Lee, and J. S. Ahn. 1998. Phospholipase c gamma I inhibitory principles from the sarcotestas of *Ginkgo biloba*. *J. Nat. Prod.* 61: 867-871.
423. Bourinbaiar, A. S. and S. Lee-Huang. 1995. Potentiation of anti-HIV activity of anti-inflammatory drugs, dexamethasone and indomethacin, by MAP30, the antiviral agent from bitter melon. *Biochem. Biophys. Res. Commun.* 208: 779-785.
424. Hirazumi, A., E. Furusawa, S. C. Chou, and Y. Hokama. 1994. Anticancer activity of *Morinda citrifolia* (noni) on intraperitoneally implanted Lewis lung carcinoma in syngeneic mice. *Proc. West. Pharmacol. Soc.* 37: 145-146.
425. Li, S. H. and Y. Chu. 1999. Anti-inflammatory effects of total saponins of *Panax notoginseng*. *Chung Kuo Yao Li Hsueh Pao* 20: 551-554.
426. Ye, W. C., N. N. Ji, S. X. Zhao, J. H. Liu, T. Ye, M. A. McKervey, and P. Stevenson. 1996. Triterpenoids from *Pulsatilla chinensis*. *Phytochemistry* 42: 799-802.
427. Chen, B. X., Y. S. Ding, and L. G. Chen. 1994. Experimental study on the processed drug of castor seeds in the therapy of pulmonary carcinoma. *Chung Kuo Chung Yao Tsa Chih* 19: 726-727, 762.
428. Liu, Y., C. F. Yang, B. L. Lee, H. M. Shen, S. G. Ang, and C. N. Ong. 1999. Effect of *Salvia miltiorrhiza* on aflatoxin B1-induced oxidative stress in cultured rat hepatocytes. *Free Radic. Res.* 31: 559-568.
429. Wu, Y. J., C. Y. Hong, S. J. Lin, P. Wu, and M. S. Shiao. 1998. Increase of vitamin E content in LDL and reduction of atherosclerosis in cholesterol-fed rabbits by a water-soluble antioxidant-rich fraction of *Salvia miltiorrhiza*. *Arterioscler. Thromb. Vasc. Biol.* 18: 481-486.
430. Goldberg, V. E., V. M. Ryzhakov, M. G. Matiash, E. A. Stepovaia, and D. A. Boldyshev. 1997. Dry extract of *Scutellaria baicalensis* as a hemo-stimulant in anti-neoplastic chemotherapy in patients with lung cancer. *Eksp. Klin. Farmakol.* 60: 28-30.

431. Xu, J. Y., J. Yang, and L. Z. Li. 1992. Antitumor effect of *Tripterygium wilfordii*. *Chung Kuo Chung Hsi I Chieh Ho Tsa Chih* 12: 161-164.
432. Shinichi, I., S. Kaxunobu, Y. Naomasa, Y. Ryouji, W. Seiji, Y. Keisuke, and K. Taketoshi. 2000. Antitumor effects of *Scutellariae* radix and its components baicalin, baicalin, and wogonin on bladder cancer cell lines. *Urology* 55: 951-955.
433. Shan, B. E., Z. Kazuya, S. Tsutomu, Y. Yasuhiro, and U. Yamashita. 2000. Chinese medicinal herb, *Acanthopanax gracilistylus*, extract induces cell cycle arrest of human tumor cells *in vitro*. *Jpn. J. Cancer Res.* 91: 383-389.
434. Zheng, C., G. Feng, and H. Liang. 1998. *Bletilla striata* as a vascular embolizing agent in interventional treatment of primary hepatic carcinoma. *Chin. Med. J. English ed.* 111: 1060-1063.
435. Shan, B. E., Y. Yoshida, T. Sugiura, and U. Yamashita. 1999. Stimulating activity of Chinese medicinal herbs on human lymphocytes *in vitro*. *Int. J. Immunopharmacol.* 21: 149-159.
436. Kurashige, S., Y. Akuzawa, and F. Endo. 1999. Effects of *Astragali radix* extract on carcinogenesis, cytokin production, and cytotoxicity in mice treated with a carcinogen, *N*-butyl-*N'*-butanolnitrosoamine. *Cancer Invest.* 17: 30-35.
437. Li, B. S., X. H. Chen, W. L. Ren, H. Q. Lu, and Y. L. Yao. 1998. Antitumor activity of KangLaiTe injection. *Zhongguo Yiyao Gongye Zazhi* 29: 456-458.
438. Zheng, S., H. Yang, S. Zhang, X. Wang, L. Yu, J. Lu, and J. Li. 1997. Initial study on naturally occurring products from traditional Chinese herbs and vegetables for chemoprevention. *J. Cell. Biochem. Suppl.* 27: 106-112.
439. Ha, M., Z. Li, and A. He. 1997. A laboratory study on *Astragalus membranaceus* mistura in the prophylaxis and treatment of myelosuppression caused by cancer chemotherapy. *J. China Medical Univ.* 26: 449-452.
440. Chen, C. Q., T. X. Lu, and H. Q. Min. 1996. Prospective study of radiosensitizing activity of three Chinese herbal agents in combination in the treatment of nasopharyngeal carcinoma. *Zhongguo Zhongliu Linchuang* 23: 483-485.
441. Kok, L. D. S., C. K. Wong, K. N. Leung, S. F. Tsang, K. P. Fung, and Y. M. Choy. 1995. Activation of the anti-tumor effector cells by radix *Bupleuri*. *Immunopharmacology* 30: 79-87.
442. Horikawa, K., T. Mohri, Y. Tanaka, and H. Tokiwa. 1994. Moderate inhibition of mutagenicity and carcinogenicity of benzo(a) pyrene, 1,6-dinitropyrene and 3,9-dinitrogluoranthene by Chinese medicinal herbs. *Mutagensis* 9: 523-526.
443. Zhang, C. P., X. Y. Lu, P. C. Ma, Y. Chen, Y. G. Zhang, and Z. Yan. 1993. Studies on diterpenoids from leaves of *Tripterygium wilfordii*. *Acta Pharm. Sin.* 28: 110-115.
444. Wang, J. Z., H. Tsumura, K. Shimura, and H. Ito. 1992. Antitumor activity of polysaccharide from a Chinese medicinal herb, *Acanthopanax giralddii* Harms. *Cancer Lett.* 65: 79-84.
445. Rittenhouse, J. R., P. D. Lui, and B. H. S. Lau. 1991. Chinese medicinal herbs reverse macrophage suppression induced by urological tumors. *J. Urol.* 146: 486-490.
446. Ma, Y. P. and A. L. Et. 1989. Prediction of responsiveness of human lung cancer xenografts to extracts of *Fagopyrum cymosum* (Trev) Meisn by SRC assay. *Chin. J. Clin. Oncol.* 16: 309-312.
447. Hu, Q., B. Jia, T. Gao, E. Zheng, Y. Gao, and L. Huo. 1989. A study on the anti-cancer effect of Ningxia wolfberry. *J. Traditional Chin. Med.* 9: 117-124.
448. Wang, D. C. and A. L. Et. 1989. Influence of *Astragalus membranaceus* (AM) polysaccharide F-8 on immunologic function of human periphery blood lymphocyte. *Shonghua Zhongliu Zazhi* 11: 180-183.

449. Shi, G. Z. and A. L. Et. 1992. Blockage of *Glycyrrhiza uralensis* and *Chelidonium majus* in MNNG induced cancer and mutagenesis. Chin. J. Prevent. Med. 26: 165-187.
450. Chauhan, N. S. 1999. Medicinal and Aromatic Plants of Himachal Pradesh. Indus Publishing Co. New Delhi, India. 652 p.
451. Tomoda, M., R. Gonda, N. Shimizu, and N. Ohara. 1994. Characterization of an acidic polysaccharide having immunological activities from the tuber of *Alisma orientale*. Biol. Pharm. Bull. 17: 572-576.
452. Yisgujawa, M., S. Yamaguchi, N. Chatani, Y. Nishino, T. Matsuoka, and J. Yamahara. 1994. Crude drugs from aquatic plants. III. Quantitative analysis of triterpene constituents in *Alismatis rhizoma* by means of high performance liquid chromatography on the chemical change of the constituents during *Alismatis rhizoma* processing. Yakugaku Zasshi 114: 241-247.
453. Iwashina, T. and J. Kitajima. 2000. Chalcone and flavonol glycosides from *Asarum canadense*. Phytochemistry 55: 971-974.
454. Krogh, A. 1971. The content of trans-aconitic acid in *Asarum europaeum* L. determined by means of a chromatogram spectrophotometer. Acta Chem. Scand. 25: 1495-1496.
455. Cui, B., Y. Sakai, T. Takeshita, J. Kinjo, and T. Nohara. 1992. Four new oleanene derivatives from the seeds of *Astragalus complanatus*. Chem. Pharm. Bull. 40: 136-138.
456. Koo, H. N., H. J. Heong, J. Y. Choi, S. D. Choi, and T. J. Choi. 2000. Inhibition of tumor necrosis factor- α -induced apoptosis by *Asparagus cochinchinensis* in Hep G2 cells. J. Ethnopharmacol. 73: 137-143.
457. Knight, V., V. Koshkina-Nadezhda, W. J. Clifford, B. C. Giovanella, and B. E. Gilbert. 1999. Anticancer effect of 9-nitrocamptothecin liposome aerosol on human cancer xenografts in nude mice. Cancer Chemother. Pharmacol. 44: 177-186.
458. Zhang, R., Y. Li, Q. Cai, T. Liu, H. She, and B. Chambliss. 1998. Preclinical pharmacology of the natural product anticancer agent 10-hydroxycamptothecin, an inhibitor of topoisomerase I. Cancer Chemother. Pharmacol. 41: 257-267.
459. Chiou, W. F., P. C. Chang, C. J. Chou, and C. F. Chen. 2000. Protein constituent contributes to the hypotensive and vasorelaxant activities of *Cordyceps sinensis*. Life Sci. 66: 1369-1376.
460. Surh, Y. J. 1999. Molecular mechanisms of chemopreventive effects of selected dietary and medicinal phenolic substances. Mutat. Res. Fundam. Mol. Mech. Mutagen. 428: 1-2, 305-327.
461. Li, S. S., J. Z. Deng, and S. X. Zhao. 1999. Steroids from tubers of *Dioscorea bulbifera* L. J. Plant Resour. Environ. 8: 2, 61-62.
462. Komori, T. 1997. Glycosides from *Dioscorea bulbifera*. Toxicon Oxford 35: 1531-1535.
463. Matsuda, H., T. Kageura, I. Toguchida, T. Murakami, A. Kishi, and M. Yoshikawa. 1999. Effects of sesquiterpenes and triterpenes from the rhizome of *Alisma orientale* on nitric oxide production in lipopolysaccharide-activated macrophages: absolute stereostructures of alismaketones-B 23-acetate and -C 23 acetate. Bioorg. Med. Chem. Lett. 9: 3081-3086.
464. Shimizu, N., S. Ohtsu, M. Tomoda, R. Gonda, and N. Ohara. 1994. A glucan with immunological activities from the tuber of *Alisma orientale*. Biol. Pharm. Bull. 17: 1666-1668.
465. Gracza, L. 1981. *In vitro* study of the expectorant effect of phenylpropane derivatives of hazelwort. XII. Active substances from *Asarum europaeum* L. Planta Med. 42: 155-159.

466. Wierzchowska-Renke, K., H. Tokarz, and M. Skorkowska. 1970. Studies of *Asarum europaeum* L. II. Preliminary studies of the content of volatile oil and L-ascorbic acid in Herba Asari cum radicibus obtained at Gdansk coastal region. *Acta Pol. Phar.* 27: 63-69.
467. Li, Z. X., C. G. Huang, Y. J. Cai, X. M. Chen, F. Wang, and Y. Z. Chen. 2000. The chemical structure and antioxidative activity of polysaccharide from *Asparagus cochinchinensis*. *Yaoxue Xuebao* 35: 358-362.
468. Tsui, W. Y. and G. D. Brown. 1996. (+)-Nyasol from *Asparagus cochinchinensis*. *Phytochemistry* 43: 1413-1415.
469. Jaeger, E., D. Jaeger, J. Orth, and A. Knuth. 2000. Irinotecan in second-line therapy of metastatic colorectal cancer. *Onkologie* 23: 15-17.
470. Wong, M. P., T. C. Chiang, and H. M. Chang. 1983. Chemical studies on dangshen, the root of *Codonopsis pilosula*. *Planta Med.* 49: 60.
471. Liu, T., W. Liang, and G. Tu. 1988. Perilolyrine, a beta-carboline alkaloid from *Codonopsis pilosula*. *Planta Med.* 54: 472-473.
472. Dong, Y. F., Z. H. Pan, T. D. Zhuang, X. T. Liu, and X. Feng. 2000. Chemical analysis of fatty oil and polysaccharides in seeds from the genus *Coix* plants in China. *J. Plant Resour. Environ.* 9: 57-58.
473. Tian, R. H., Y. Ding, T. Nohara, K. Takia, and Y. Takiguchi. 1997. Study on fatty constituents in *Coicis* semen. *Nat. Med.* 51: 177-185.
474. Nagao, T., H. Otsuka, H. Kohda, T. Sato, and K. Yamasaki. 1985. Benzoxazinones from *Coix lachryma jobi* var. ma yuen. *Phytochemistry* 24: 2959-2962.
475. Otsuka, H., M. Takeuchi, S. Inoshiri, T. Sato, and K. Tamasaki. 1989. Phenolic compounds from *Coix lachryma-jobi* var. ma-yuen. *Phytochemistry* 28: 883-886.
476. Phillipson, J. D. 2000. *Phytochemistry and medicinal plants*. *Phytochemistry* 56: 217-243.
477. Kitamura, Y., M. Ohata, T. Ikenaga, and M. Watanabe. 1999. Different responses between anthocyanin-producing and non-producing cell cultures of *Glehnia littoralis* to stress. *Proc. 9th Int. Congr. Int. Assn. Plant Tissue Culture and Biotechnology*, Jerusalem, Israel, 14-19 June, 1998. p. 503-506.
478. Nakano, Y., H. Matsunaga, T. Saita, and M. Mori. 1998. Antiproliferative constituents in Umbelliferae plants II. Screening for polyacetylenes in some Umbelliferae plants, and isolation of panaxynol and falcariindiol from the root of *Heracelum moellendorffii*. *Biol. Pharm. Bull.* 21: 257-261.
479. McCutcheon, A. R., R. W. Stokes, L. M. Thorson, S. M. Ellis, and G. H. N. Towers. 1997. Anti-mycobacterial screening of British Columbian medicinal plants. *Int. J. Pharmacog.* 35: 77-83.
480. Satoh, A., Y. Narita, N. Endo, and H. Nishimura. 1996. Potent allelochemical falcariindiol from *Glehnia littoralis* F. Schm. *Biosci. Biotechnol. Biochem.* 60: 152-153.
481. Cheng, D. L., Y. Shao, L. Yang, and P. E. Zhan. 1994. Triterpene glycosides in the leaves of *Acanthopanax giraldii*. *Acta Bot. Sin.* 36: 75-79.
482. Chang, Q., D. Chen, J. Si, Z. Zhu, and X. Wang. 1993. Studies on chemical constituents of *Acanthopanax giraldii* var. hispidus Hoo. *China J. Chin. Materia Med.* 18: 162-164.
483. Matsuura, H., G. Saxena, S. W. Farmer, R. E. W. Hancock, and G. H. N. Towers. 1996. Antibacterial and antifungal polyine compounds from *Glehnia littoralis* spp. leiocarpa. *Planta Med.* 62: 256-259.
484. Fang, X. D., M. You, W. B. Ying, Z. M. Sun, and P. Z. Shen. 1986. The immunosuppressive activities of polysaccharides from *Glehnia littoralis* (Bei Sha Shen). *Acta Pharm. Sin.* 21: 931-934.

485. Tang, X., Y. Ma, and P. Li. 1995. Separation and identification of the anti-inflammatory diterpene from the root cortices of *Acanthopanax gracilistylus* W. W. Smith. *Zhongguo Zhongyao Zazhi* 20: 231.
486. Okuyama, T., M. Takata, H. Nishino, A. Nishino, J. Takayasu, and A. Iwashima. 1990. Studies on the antitumor-promoting activity of naturally occurring substances. II. Inhibition of tumor-promoter-enhanced phospholipid metabolism by umbelliferous materials. *Chem. Pharm. Bull.* 38: 1084-1086.
487. Kaegi, E. 1998. Unconventional therapies for cancer. I. Essiac. *Can. Med. Assn. J.* 158: 897-902.
488. Ku, H. Y. and S. R. Luo. 1995. Separation and determination of five lignans in the seeds of *Arctium lappa* Linne by RP-HPLC. *Acta Pharm. Sin.* 30: 41-45.
489. Ichihara, A., K. Oda, Y. Numata, and S. Sakamura. 1976. Lappaol A and B, novel lignans from *Arctium lappa* L. *Tetrahedron Lett.* 44: 3961-3964.
490. Peng, J. P., X. S. Yao, H. Kobayashi, and C. Y. Ma. 1995. Novel furostanol glycosides from *Allium macrostemon*. *Planta Med.* 61: 58-61.
491. Bai, L., T. Kato, K. Inoue, M. Yamaki, and S. Takagi. 1993. Stilbenoids from *Bletilla striata*. *Phytochemistry* 33: 1481-1483.
492. Yamaki, M., L. Bai, T. Kato, and K. I. Tomita. 1993. Blespirol, a phenanthrene with a spiro lactone ring from *Bletilla striata*. *Phytochemistry* 33: 1497-1498.
493. Yamaki, M., T. Kato, L. Bai, K. Inoue, and S. Takagi. 1993. Phenanthrene glucosides from *Bletilla striata*. *Phytochemistry* 34: 535-537.
494. Yamaki, M., T. Kato, L. Bai, K. Inoue, and S. Takagi. 1992. Bisphenanthrene ethers from *Bletilla striata*. *Phytochemistry* 31: 3985-3987.
495. Bai, L., T. Kato, K. Inoue, M. Yamaki, and S. Takagi. 1991. Blestrianol A, B, and C, bisphenanthrenes from *Bletilla striata*. *Phytochemistry* 30: 2733-2735.
496. Yen, G. C., H. W. Chen, and P. D. Duh. 1998. Extraction and identification of an antioxidative component from jue ming zi (*Cassia tora* L.). *J. Agric. Food Chem.* 46: 820-824.
497. Kim, D. J., B. W. Ahn, B. S. Han, and H. Tsuda. 1997. Potential preventive effects of *Chelidonium majis* L. (Papaveraceae) herb extract on glandular stomach tumor development in rats treated with *N*-methyl-*N'*-nitro-*N* nitrosoguanidine (MNNG) and hypertonic sodium chloride. *Cancer Lett.* 112: 203-208.
498. Goda, Y., S. Sakai, T. Nakamura, K. Kondo, H. Akiyama, and M. Toyoda. 1998. Determination of digitoxigenin glycosides in "Moroheiya" (*Corchorus olitorius*) and its products by HPLC. *J. Food Hyg. Soc. Jpn.* 39: 415-420.
499. Goda, Y., S. Sakai, T. Nakamura, K. Kondo, H. Akiyama, and M. Toyoda. 1998. Identification and analyses of main cardiac glycosides in *Corchorus olitorius* seeds and their acute oral toxicity to mice. *J. Food Hyg. Soc. Jpn.* 39: 256-265.
500. Yoshikawa, M., T. Murakami, H. Shimada, and S. Yoshizumi. 1998. Medicinal food-stuffs. XIV. On the bioactive constituents of moroheiya. II: New fatty acids, corchorifatty acids A, B, C, D, E, and F, from the leaves of *Corchorus olitorius* L. *Chem. Pharm. Bull.* 46: 1008-1014.
501. Hall, I. H., K. H. Lee, W. L. Williams, T. Kimura, and T. Hirayama. 1980. Antitumor agents XLI: effects of eupaformosanin on nucleic acid, protein, and anerobic and aerobic glycolytic metabolism of Ehrlich ascites cells. *J. Pharm. Sci.* 69: 294-297.
502. Perez, C., J. R. Canal, J. E. Campillo, A. Romero, and M. D. Torres. 1999. Hypotriglyceridaemic activity of *Ficus carica* leaves in experimental hypertriglyceridaemic rats. *Phytother. Res.* 13: 188-191.
503. Li, S. L., P. Li, G. Lin, G. H. Zhou, and N. N. Que. 1999. Existence of 5alpha-cavenine isosteroidal alkaloids in bulbs of *Fritillaria* L. *Acta Pharm. Sin.* 34: 842-847.

- 504. Bratati, D. 1997. Alkaloids of *Strychnos nux-vomica*. J. Med. Aromatic Plant Sci. 19: 432-439.
- 505. Guo, D. L., F. D. Zeng, C. J. Hu, and D. L. Guo. 1997. Effects of dauricine, quinidine, and sotalol on action potential duration of papillary muscles *in vitro*. Acta Pharmacol. Sin. 18: 348-350.
- 506. Singh, S. B. and R. S. Thakur. 1980. New furostanol and spirostanol saponins from tubers of *Paris polyphylla*. Planta Med. 40: 301-303.
- 507. Kasimu, R., P. Basnet, Y. Tezuka, S. Kadota, and T. Namba. 1997. Danshenols A and B, new aldose reductase inhibitors from the root of *Salvia miltiorrhiza* Bunge. Chem. Pharm. Bull. 45: 564-566.
- 508. You, Y. 1997. Determination of fumaric acid in *Sarcandra glabra* (Thunb.) Nakai by HPLC. Zhongguo Zhongyao Zazhi 22: 554, 576-577.
- 509. Tsui, W. Y. and G. D. Brown. 1996. Cycloeudesmanolides from *Sarcandra glabra*. Phytochem. Oxford 43: 819-821.

APPENDIX 1

Chinese and Scientific Names of Chinese Medicinal Herbs

Chinese Name	Scientific Name
A Wei	<i>Ferula assa-foetida</i> L., <i>F. bungeana</i> Kitag.
Ai Di Cha	<i>Ardisia japonica</i> (Hornst.) Blume
Ai Lei	<i>Centaurium meyeri</i> (Bunge.) Druce
Ai Na Xian	<i>Blumea balsumifera</i> (L.) DC var. <i>microcephala</i> Kitamura, <i>Styrax tonkinensis</i>
Ai Ye	<i>Artemisia argyi</i> Leveille & Vaniot, <i>A. vulgarts</i> L., <i>A. argyi</i> Leveille & Vaniot f. <i>eximia</i> Pamp, <i>A. scoparia</i> Waldst. & Kitaib., <i>A. keiskeana</i> Miq., <i>A. selengensis</i> Turcz. ex Bess., <i>A. lagocephala</i> Fisch. ex Bess., <i>A. argyi</i> Leveille & Vaniot f. <i>gracilis</i> (Pamp.) Kitag., <i>A. integrifolia</i> L., <i>A. sieversiana</i> Ehrh. ex Willd., <i>A. halodendron</i> Turcz. ex Bess., <i>A. indica</i> Willd., <i>A. japonica</i> Thunb., <i>A. igniaria</i> Max., <i>A. lavandulaefolia</i> DC, <i>A. japonica</i> Thunb. var. <i>manshurica</i> (Kom.) Kitag.
Ai Yu Zi	<i>Ficus awkeotsang</i> Makino
Ba Dou	<i>Croton tiglium</i> L., <i>C. cascarilloides</i> Raeushel
Ba Ji Tian	<i>Morinda officinalis</i>
Ba Jiao Feng	<i>Alangium chinense</i> (Lour.) Harms.
Ba Jiao Hui Xiang	<i>Illicium verum</i> Hook f., <i>I. lanacedatum</i> A. S. Smith
Ba Jiao Lian	<i>Podophyllum peltatum</i> L., <i>P. pleianthum</i> Hance.
Ba Li Ma	<i>Rhododendron molle</i> (Blume) G. Don
Bai Bao Zi	<i>Mallotus paniculatus</i> (Lam.) Muell-Arg.
Bai Ben Dou	<i>Dolichos lablab</i> L.
Bai Bu	<i>Stemona japonica</i> (Bl.) Miq.
Bai Chen	<i>Cynanchum japonicum</i> Moore et Decne
Bai Dou Ku	<i>Amomum cardamomum</i> L.
Bai Guo	<i>Artemisia frigida</i> Willd.
Bai He	<i>Lilium brownii</i> F. E. Brown var. <i>viridulum</i> Baker, <i>L. dauricum</i> Ker-gawler, <i>L. distichum</i> Nakai ex Kamibayashi, <i>L. concolor</i> Salisb. var. <i>buschianum</i> (Ledeb.) Baker, <i>L. pumilum</i> DC, <i>L. lancifolium</i> Thunb., <i>L. japonicum</i> Thunb., <i>L. concolor</i> Salisb. var. <i>partheneion</i> (Sieb. & De Vries) Baker
Bai Hua	<i>Betula mandshurica</i> (Regel) Nakai, <i>B. platyphylla</i> Suk.
Bai Hua Teng	<i>Plumbago zeylanica</i> L.
Bai Ji	<i>Cymbidium hyacinthinum</i> Sm., <i>C. striatum</i> Sw., <i>Bletilla hyacinthina</i> R. Br., <i>B. striata</i> (Thunb.) Reichb., <i>B. hyacinthina</i> R. Br., <i>Epidendrum striatum</i> Thunb., <i>E. tuberosum</i> Lour.

Bai Jiang Cao	<i>Patrina scabiosaefolia</i> Fisch ex Link.
Bai Jie	<i>Sinapis alba</i> L.
Bai Jie Zi	<i>Brassica alba</i> (L.) Rabenh., <i>B. juncea</i> (L.) Czern. et Coss.
Bai Lian	<i>Ampelopsis japonica</i> (Thunb.) Mak.
Bai Lian Guo	<i>Artemisia gmelini</i> Weber ex Stechmann
Bai Mao	<i>Imperata arundinaceae</i> Cyrill., <i>I. cylindrica</i> Beauv.
Bai Qu Cai	<i>Chelidonium album</i> L., <i>C. hybridum</i> L., <i>C. majus</i> L., <i>C. serotinum</i> L.
Bai Rui Cao	<i>Thesium chinense</i> Turcz.
Bai Shao	<i>Paeonia albiflora</i> Pall., <i>P. japonica</i> (Makino) Miyabe. et Takeda, <i>P. edulis</i> Salisb., <i>P. officinalis</i> L., <i>P. moutan</i> Sims., <i>P. lactiflora</i> Pall., <i>P. lactiflora</i> Pall. var. <i>trichocarpa</i> (Bunge.) Stern
Bai Tou Went	<i>Pulsatilla ambigua</i> Turcz. ex Pritz., <i>P. cernua</i> (Thunb.) Bercht. et Opiz., <i>P. chinensis</i> (Bunge.) Regel, <i>P. chinensis</i> (Bunge.) Regel var. <i>kissii</i> (Mandl) S. H. Li et Y. H. Huang
Bai Tu Own	<i>Anemone cernua</i> Thunb., <i>A. pulsatilla</i> , <i>A. pulsatilla</i> var. <i>chinensis</i> Bunge.
Bai Way	<i>Cynanchum atratum</i> Bunge.
Bai Xian Pi	<i>Dictamnus albus</i> L. subsp. <i>dasycarpus</i> (Turcz.) Winter, <i>Dictamnus dasycarpus</i> , <i>Fraxinella dictamnus</i> Moench
Bai Yin Shu	<i>Securinega virosa</i> (Roxb.) Pax & Hoffmann
Bai Ying	<i>Solanum lyratum</i> Thunb., <i>S. melongena</i> L.
Bai Yu Lan	<i>Michelia alba</i> DC
Bai Zhi	<i>Angelica amurensis</i> Schischk., <i>A. dahurica</i> (Fisch.) Benth. et Hook., <i>A. anomala</i> Lalle.
Bai Zhu	<i>Atractylodes chinensis</i> (Bunge.) Koidz., <i>A. chinensis</i> (Bunge.) Koidz. f. <i>simplicifolia</i> (Loes.) Y. C. Chu, <i>A. chinensis</i> (Bunge.) Koidz. f. <i>quinqueloba</i> , (Baranov et Skv.) Y. C. Chu, <i>A. chinensis</i> (Bunge.) Koidz. var. <i>liaotungensis</i> (Kitag.) Y. C. Chu, <i>A. japonica</i> Koidz. ex Kitam., <i>A. koreana</i> (Nakai) Kitam., <i>A. macrocephala</i> Koidz.
Bai Du Juan Hua	<i>Rhododendron mucronatum</i> G. Don
Bai Hua Shi Shi Cao	<i>Oldenlandia diffusa</i> , <i>Hedyotis diffusa</i> Willd
Bai Hua Yi Mu Cao	<i>Leonurus sibiricus</i> L. f. <i>albiflorus</i> (Nakai et Kitag.) G. Wu
Bai Long Chuan Hua	<i>Clerodendrum paniculatum</i> L. var. <i>albiflorum</i> Hsieh.
Bai Qian Ceng	<i>Melaleuca leucadendra</i> L.
Bai Ye Diao Zhang	<i>Lindera glauca</i> (Sieb. et Zucc.) Blume
Bai Zhu Shu	<i>Gaultheria leucocarpa</i> f. var. <i>cumingiana</i> (Vidal) Sleumer.
Ban Bian Lian	<i>Lobelia chinensis</i> L.

Chinese Name	Scientific Name
Ban Jiu Jiu	<i>Vernonia andersonii</i> C. B. Carke
Ban Lan	<i>Baphicanthus cusia</i> (Nees.) Bremek.
Ban Lan Gen	<i>Isatis chinensis</i> (Thunb.) Nakai, <i>I. chinensis</i> (Thunb.) Nakai var. <i>graminifolia</i> H. C. Fu
Ban Lan Geng	<i>Polygonum tinctorium</i> Lour
Ban Xia	<i>Pinellia ternata</i> (Thunb.) Breit, <i>P. tuberifera</i> Tenore
Ban Zi Lian	<i>Scutellaria barbata</i>
Bang Chui Hui	<i>Neoalsomitra integrifoliola</i> (Cogn.) Hutch
Be Han Cao	<i>Melilotus alba</i> Medicus, <i>M. suaveolens</i> Ledeb.
Bei Mei Do Xing Cao	<i>Lepidium virginicum</i> L.
Bei Mu	<i>Fritillaria thunbergii</i> Miq., <i>F. anheunensis</i> Chen et Yin, <i>F. collicola</i> Hance, <i>F. roylei</i> Hook, <i>F. maximowiczii</i> Freyn, <i>F. ussuriensis</i> Maxim., <i>F. verticillata</i> Willd.
Bei Pu Jiang	<i>Buddleia formosana</i> Hatushima
Bei Xian	<i>Cyathula prostrata</i> (L.) Blume
Bei Za Seng	<i>Glehnia littoralis</i> F. S. Schmidt et Miq.
Ben Sao	<i>Mylabris phalerata</i>
Bi Ba	<i>Piper longum</i> L.
Bi Cheng Qie	<i>P. cubeba</i> L.
Bi Li Go	<i>Ficus pumila</i> L.
Bi Ma Zi	<i>Ricinus communis</i> L.
Bi Qao Jiang	<i>Costus speciosus</i> (Koen.) Smith
Bian Xu	<i>Polygonum aviculare</i> L., <i>P. vivipara</i> (L.) S. F. Gray, <i>P. lapidosa</i> Kitag., <i>P. aviculare</i> L. var. <i>vegetum</i> Ledeb., <i>P. manshuriensis</i> Komarov
Bing Lang	<i>Areca catechu</i> L., <i>A. hortonsis</i> Lour.
Bo Hoo	<i>Mentha arvensis</i> L., <i>M. dahurica</i> Fisch. ex Benth., <i>M. haplocalyx</i> Briq., <i>M. sachalinensis</i> (Briq.) Kudo, <i>M. sachalinensis</i> (Briq.) Kudo f. <i>arguta</i> (Kitag.) Y. C. Chu
Bo Lo Mi	<i>Artocarpus heterophyllus</i> Lamarck
Bo Lou Hui	<i>Macleaya cordata</i>
Bu Gu Zi	<i>Psoralea corylifolia</i> L.
Cai Fu	<i>Raphanus sativus</i> L.

Cam Dou	<i>Vicia faba</i> L.
Canada Pon	<i>Erigeron canadensis</i> L.
Cang Er	<i>Xanthium chinense</i> Mill., <i>X. strumarium</i> L., <i>X. sibiricum</i> Patr. ex. Widd., <i>X. japonicum</i> Widder, <i>X. mongolicum</i> Kitag.
Cang Zhu	<i>Atractylodes lancea</i>
Cao Bai Ching	<i>Ampelopsis aconitifolia</i>
Cao Guo	<i>Amomum globosum</i> Lour.
Cao He Che	<i>Polygonum bistorta</i> L.
Cao Jue Ming	<i>Celosia margariacea</i> L., <i>C. argentea</i> L.
Cao Wu	<i>Aconitum laciniatum</i> Stapf., <i>A. chinensis</i> Paxt., <i>A. vilmorinianum</i> Kom., <i>A. pariculigerum</i> Nakei., <i>A. kusnezoffii</i> Reichenbach
Cao Yu Mei	<i>Anemone rivularis</i> Buch-Hamilton ex DC, <i>A. rivularis</i> Buch-Hamilton ex DC var. <i>flore-minore</i> Maxim.
Ce Bai Ye	<i>Platycladus orientalis</i> (L.) Franco., <i>Thuja chinensis</i> Hort., <i>T. koraiensis</i> Nakai, <i>T. orientalis</i> L.
Ce Bai Ye	<i>Biota chinensis</i> Hort., <i>B. orientalis</i> L.
Ce Yan	<i>Alnus japonica</i> (Thunb.) Steudel, <i>A. japonica</i> (Thunb.) Steudel var. <i>koreana</i> Callier
Cha	<i>Camellia bohea</i> Griff., <i>C. viridis</i> Link., <i>C. theifera</i> Griff., <i>C. sinensis</i> (L.) Kuntze, <i>Thea assamica</i> Mast, <i>T. sinensis</i> L., <i>T. bohea</i> L., <i>T. cochinchinensis</i> Lour., <i>T. viridis</i> Link., <i>T. cantoniensis</i> Lour., <i>T. chinensis</i> Sims.
Chai Hu	<i>Bupleurum chinense</i> DC, <i>B. scorzoneraefolium</i> Willd., <i>B. falcatum</i> L.
Chang Bai Rui Xian	<i>Daphne koreana</i> Nakai
Chang Chun Hua	<i>Catharanthus roseus</i> (L.) G. Don
Chang Chun Ton	<i>Hedera rhombea</i> (Miq.) Bean
Chang Pu	<i>Acorus calamus</i> L. var. <i>angustatus</i> Besser, <i>A. tatarinowii</i> L., <i>A. gramineus</i> Ait.
Chang Shan	<i>Dichroa febrifuga</i> Lour., <i>D. cyanitis</i> Miq., <i>D. febrifuga</i> Lour., <i>D. latifolia</i> Miq., <i>Adamia cyanea</i> Wall., <i>A. versicolof</i> Fortune
Chang Shu	<i>Cinnamomum camphora</i> (L.) J. S. Presl.
Che Chen Zi	<i>Plantago asiatica</i> L., <i>P. major</i> L., <i>P. major</i> L. var. <i>asiatica</i> DC, <i>P. exaltata</i> Horn., <i>P. loureiri</i> Roem. et Schult, <i>P. depressa</i> Willd.
Che Sang Zi	<i>Dodonaea viscosa</i> (L.) Jacquin
Che Ye Sha Seng	<i>Adenophora triphylla</i> (Thunb.) DC
Che Zhou Cao	<i>Trifolium pratense</i> L., <i>T. repens</i> L.
Chen Pi	<i>Citrus reticulata</i> Blanco

Chinese Name	Scientific Name
Chen Wei	<i>Rosa multiflora</i> Thunb.
Chen Xiang	<i>Aquilaria agallocha</i> Roxb., <i>A. sinensis</i> (Lour.) Gilg.
Chinese Ji	<i>Cirsium chinense</i> Gardn. et. Champ.
Ching Mian Hua	<i>Pileostegia viburnoides</i> Hooker f. Thomson
Chiu Chung Ko	<i>Bougainvillea brasiliensis</i> Raeusch, <i>B. glabra</i> Choisy var. <i>sanderiana</i> Hort.
Cho Chong Jiu	<i>Pyrethrum cinerariifolium</i> (L.) Trev.
Cho Mo	<i>Fagopyrum esculentum</i> Moench, <i>F. sagittatum</i> Gilib.
Chong Guo	<i>Artemisia finita</i> Kitag.
Chou Chie Cao	<i>Boenninghausenia albiflora</i> (Hook.) Meisn.
Chou Fu Yong	<i>Tagetes erecta</i> L.
Chou Lee	<i>Prunus padus</i> L.
Chou Mu Lee	<i>Clerodendrum fragrans</i> Ventenat
Chou Wu Tong	<i>Clerodendrum trichotomum</i> Thunb., <i>C. trichotomum</i> Thunb. var. <i>ferrugineum</i> Nakai
Chou Xing	<i>Chenopodium ambrosioides</i> L.
Chu Gu Jiu	<i>Chrysanthemum cinerriae-folium</i> Visiont
Chu Kui	<i>Althaea rosea</i> (L.) Cav.
Chu Ye	<i>Phyllostachys bambusoide</i> Sieb. et Zucc., <i>P. nigra</i> Munro. var. <i>henonis</i> Mak.
Chuan Duan Chang Cao	<i>Corydalis incisa</i> (Thunb.) Pars.
Chuan Jian	<i>Xanthoxylum piperitum</i> DC
Chuan Jin Pi	<i>Hibiscus rhombifolius</i> Cav.
Chuan Lian	<i>Melia japonica</i> G. Don, <i>M. toosendan</i> L.
Chuan Shan Long	<i>Dioscorea nipponica</i> Makino
Chuan Xiang	<i>Ligustium chuanziang</i> Hort.
Chuan Xin Lian	<i>Andrographis paniculata</i> (Burm. f.) Nees
Chui Pen Chao	<i>Sedum sarmentosum</i> Bunge.
Chui Zhi Shi Song	<i>Lycopus phlegmaria</i> L.
Chun Pi	<i>Ailanthus altissima</i> (Mill.) Swingle
Chung Way	<i>Leonurus sibiricus</i> L.
Ci Gu	<i>Sagittaria sagittifolia</i> L.

Ci Hi Li	<i>Tribulus terrestris</i> L.
Ci Luo Shi	<i>Maytenus diversifolia</i> Hou.
Ci Seng	<i>Oplopanax elatus</i> (Nakai) Nakai
Ci Wu Jia	<i>Eleutherococcus senticosus</i> (Rupr. ex Maxim.) Maxim., <i>Acanthopanax senticosus</i> (Rupr. et Maxim.) Harms.
Cong	<i>Allium fistulosum</i> L.
Cong Lan	<i>Zephyranthes candida</i> Herbert
Cu Fei	(Taiwan) <i>Cephalotaxus wilsoniana</i> Hayata
Cui Que	<i>Delphinium grandiflorum</i> L.
Cylon Rou Gui	<i>Cinnamomum zegganicum</i> Blume
Da Dou	<i>Glycine max</i> (L.) Merrill
Da Fei Yang Cao	<i>Euphorbia hirta</i> L.
Da Feng Zi	<i>Hydnocarpus anthelmintica</i> Pierre, <i>H. castaneus</i> H. F. & Th.
Da Hua Tian Qing	<i>Sesbinia grandiflora</i> (L.) Persoon
Da Ji	<i>Cirsium japonicum</i> DC, <i>Euphorbia lasiocaula</i> Boiss., <i>E. sampsoni</i> Hance, <i>E. coraroides</i> Thunb., <i>E. pallasii</i> Turcz., <i>E. lunulata</i> Bunge., <i>E. sieboldiana</i> Moore et Decne., <i>E. pekinensis</i> Rupr.
Da Ji Ru Zi Shu	<i>Euphorbia resinifera</i> Berger
Da Ma Ren	<i>Cannabis chinensis</i> Del., <i>C. sativa</i> L.
Da Qing	<i>Isatis indigotica</i> Fortune ex Lindley, <i>I. oblongata</i> DC, <i>Clerodendrum cyrtophyllum</i> Turczaninow
Da Qing Ye	<i>Baphicanthus cusia</i> (Nees.) Bremek.
Da Ri Jian Cao	<i>Oenothera terythrosepala</i> Borbus
Da Suan	<i>Allium chinense</i> Max, <i>A. tuberosum</i> Roxb., <i>A. sativum</i> L., <i>A. uliginosum</i> G. Don, <i>A. odorum</i> L.
Da Wan Hua	<i>Calystegia hederacea</i> Willich ex Roxb., <i>C. japonica</i> Choisy iu Zoll.
Da Xian Mao	<i>Curculigo capitulata</i> (Lour.) O. Kuntze
Da Xian Ye Shu	<i>Lindera megaphylla</i> Hemsley
Da Ye An	<i>Eucalyptus robusta</i> Sm.
Dan Gui	<i>Angelica polymorpha</i> Max., <i>A. sinensis</i> (Oliv.) Diels
Dan Ye Mu Jing	<i>Vitex rotundifolia</i> L. f.
Dan Ye Xiz Zhu	<i>Phyllanthus simplex</i> Ketziu
Dan Zhu Ye	<i>Lophatherum gracile</i> Brongn.
Dao Dou	<i>Canavalia gladiata</i> (Jacq.) DC

Chinese Name	Scientific Name
De Jin	<i>Parthenocissus tricuspidata</i> Planchon.
De Qing Cao	<i>Euphorbia humifusa</i> Willd.
Deng Tai Ye	<i>Alstonia scholaris</i> (L.) R. Br.
Di Dan Tou	<i>Elephantopus elatus</i> L.
Di Ding Zi Jing	<i>Corydalis bungeana</i> Turcz.
Di Er Cao	<i>Hypericum ascyron</i> L. var. <i>longistylum</i> Maxim.
Di Gu Pi	<i>Lycium chinense</i> Miller
Di Huang	<i>Rehmannia chinensis</i> Fisch., <i>R. glutinosa</i> (Gaertn.) Libosch.
Di Jiao	<i>Thymus amurensis</i> Klokov, <i>T. komarovii</i> Sergievskaja, <i>T. przewalskii</i> (Kom.) Nakai, <i>T. kitagawianus</i> Tscherneva, <i>T. quinquecostatus</i> Celakovsky, <i>T. disjunctus</i> Klokov
Di Jin Cao	<i>Euphorbia helioscopia</i> L.
Di Yu	<i>Poterium officinale</i> Benth.
Ding Gong Teng	<i>Erycibe henryi</i> Prain
Ding Xian	<i>Eugenia ulmoides</i> Oliv., <i>E. aromatica</i> Baill., <i>E. caryophyllata</i> (L.) Thunb.
Dio Ue Nao Bu	<i>Stemona tuberosa</i> Lour.
Do Xing Cao	<i>Lepidium apetalum</i> Willd.
Don Gua	<i>Benincase cerifera</i> Savi., <i>B. hispida</i> Cogn.
Don Shin	<i>Juncus communis</i> Meyer
Don Sin Cao	<i>Juncus effusus</i> L.
Dong Chong Xia Chao	<i>Cordyceps sinensis</i>
Dong Kui Zi	<i>Malva chinensis</i> Mill., <i>M. verticillata</i> L., <i>M. pulchella</i> Berhn.
Dong Ling Cao	<i>Rabdosia rubescens</i>
Dong San Hu	<i>Solanum pseudo-capsicum</i> L.
Dong Seng	<i>Codonopsis pilosula</i> (Franch.) Nannfeldt, <i>C. tangshen</i> Oliv., <i>C. ussuriensis</i> (Rupr. et Maxim.) Hemsl.
Dong Yao	<i>Swertia pseudochinensis</i> Hara
Dou Kou	<i>Alpinia katsumadai</i>
Dou Tu Si	<i>Cuscuta australis</i> R. Brown
Du Jing Sha	<i>Maesa japonica</i> (Thunb.) Moritzi
Du Zhong	<i>Eucommia ulmoides</i> D. Oliver

Duan Geng Ren Dong	<i>Lonicera apodonta</i> Ohwi
Duan Geng Wu Jia	<i>Acanthopanax sessiliflorus</i> (Rupr. et Maxim.) Seem
Duan Xue Liu	<i>Clinopodium chinense</i> (Benth.), <i>C. polycephalum</i>
Dui Ye Dou	<i>Cassia alata</i> L.
Duo Ti Hu	<i>Cynoglossum divaricatum</i> Stemphan
E Zhu	<i>Curcuma pallida</i> Lour.
Er Cha	<i>Acacia catechu</i> Willd.
Fan Lu	<i>Stellaria media</i> (L.) Cyrillo
Fan Mu Pen	<i>Strychnos nux-vomica</i> L.
Fan Qie	<i>Lycopersicon esculentum</i> L.
Fan Shi Lui	<i>Psidium guajava</i> L.
Fan Sui Xian	<i>Amaranthus paniculatus</i> L.
Fan Tian Hua	<i>Urena procumbens</i> L.
Fan Xie Ye	<i>Cassia angustifolia</i> Vahl., <i>Tinnevely senna</i> (Syn. <i>Cassia angustifolia</i>)
Fan Xing	<i>Tetragonia tetragonoides</i> (Pall.) O. Kuntz.
Fang Chi	<i>Menispermum dauricum</i> DC. f. <i>pilosum</i> (Schneider) Kitag.
Fang Feng	<i>Ledebouriella divaricata</i>
Fang Ji	<i>Cocculus diversifolius</i> Miq., <i>C. thunbergii</i> DC
Fei Bai	<i>Allium macrostemon</i> Bunge., <i>A. tartaricum</i> Ait.
Fei Hin Cao	<i>Aletris formosuna</i> (Hayata) Sasaki, <i>A. spicata</i> Franch
Fei Lan	<i>Zephyranthes carinata</i> Herbert
Fen Fang Ji	<i>S. tetrandraq</i> Moore
Fen Wei Ju	<i>Pueraria wallichiana</i> Agardh.
Feng Dou Cai	<i>Petasites japonicus</i> F. Schmidt.
Feng Huan Mu	<i>Delonix regia</i> (Boj.) Raf.
Feng Lee	<i>Ananas comosus</i> (L.) Merrill
Feng Lin Cao	<i>Campanula glomerata</i> L. f. <i>canescens</i> (Maxim.) Kitag., <i>C. punctata</i> Lam, <i>C. glomerata</i> L. var. <i>dahurica</i> Fisch. ex Ker-Gawler
Feng Lun Cai	<i>Clinopodium umbrosum</i> (Bleb.) C. Koch.
Feng Wei Cao	<i>Pteris cretica</i> L., <i>P. ensiformis</i> Burmann, <i>P. multifida</i> Poir, <i>P. vittata</i> L., <i>P. wallichiana</i> Agardh.

Chinese Name	Scientific Name
Feng Xian Hua	<i>Impatiens balsamina</i> L., <i>I. noli-tangere</i> L., <i>I. textori</i> Miq.
Feng Yang	<i>Pterocarya stenoptera</i> DC
Fo Jia Cao	<i>Sedum lineare</i> Thunb.
Fo Jia Cao (Taiwan)	<i>S. formosanum</i> N. E. Brown
Fon Xian Chi	<i>Liquidambar acerifolia</i> Max., <i>L. formosana</i> Hance, <i>L. maximowiczii</i> Miq.
Fong Chang	<i>Eclipta thermalis</i> Bunge., <i>E. alba</i> Hassk., <i>E. prostrata</i> (L.) L., <i>E. marginata</i> Boiss.
Fong Kui	<i>Peucedanum japonicum</i> Thunb., <i>P. praeruptorum</i> L.
Foo Shao Mai	<i>Triticum vulgare</i> Vill.
Fu Ling	<i>Poria cocos</i> (Polyporaceae)
Fu Pen Zi	<i>Rubus coreanus</i> Miq., <i>R. matsumuranus</i> Levelle & Vaniot var. <i>concolor</i> (Kom.) Kitag., <i>R. saxatilis</i> L., <i>R. crataegifolius</i> Bunge., <i>R. matsumuranus</i> Levelle & Vaniot
Fu Ping	<i>Spirodela polyrrhiza</i> Schleid.
Fu Rong Yie	<i>Hibiscus mutabilis</i> L.
Fu Shou Cao	<i>Adonis chrysocyathus</i> Hook F. & T. Thoms., <i>A. brevistyla</i> Franch., <i>A. vernalis</i> L.
Fu Wei Lan	<i>Sansevieria trifasciata</i> Prain
Fu Zi	<i>Aconitum balfouri</i> Stapf., <i>A. praeparata</i> , <i>A. jaluense</i> Kom. F. <i>glabrescens</i> (Nakai) Kitag., <i>A. carmichaelii</i> Debeaux, <i>A. volubile</i> Pall. ex Koelle var. <i>oligotrichum</i> Kitag., <i>A. napellus</i> L., <i>A. koreanum</i> R. Raymund, <i>A. deinorrhizum</i> Stapf., <i>Aconitum chasmanthum</i> Stapf., <i>A. fischeri</i> Reichb.
Fuag Ji (Japanese)	<i>Sinomenium acutum</i> , <i>S. diversifolium</i> Diels.
Ga Song Xiang	<i>Nardostachys jatamansi</i> DC
Gan Cao	<i>Glycyrrhiza uralensis</i> Fisch. ex DC, <i>G. pallidiflora</i> Maxim.
Gan Lan	<i>Canarium album</i> Raeusch., <i>C. sinense</i> Rumph., <i>C. album</i> Raeusch., <i>Pimela alba</i> Lour.
Gan Qi	<i>Rhus verniciflua</i> Stokes
Gan Su	<i>Iris buata</i> (L.) Lamarck.
Gang Ban Gui	<i>Polygonum perfoliatum</i>
Gao Ben	<i>Ligustium jeholense</i> (Nakai et Kitag.) Nakai et Kitag., <i>L. tenuissimum</i> (Nakai) Kitag., <i>L. sinense</i> Oliv., <i>L. pyrenacum</i> Couan.
Gao Liang Jiang	<i>Alpinia officinarum</i> Hance
Gao Mu	<i>Nothosmyrnum japonicum</i> Miq.

Gao Shan Liao	<i>Oxyria digyna</i> (L.) Hill
Ge Cong	<i>Allium victorialis</i> L. var. <i>platyphyllum</i> (Hult.) Makino
Ge Gen	<i>Pachyrhizus thunbergianus</i> Sieb. et Zucc., <i>Pueraria thunbergiana</i> Benth., <i>P. lobata</i> (Willd.) Ohwi.
Giang Huo	<i>Notopterygium incisum</i> Ting
Gong Chong	<i>Conioselinum univittatum</i> Turcz.
Gong Lao Mu	<i>Magnolia fortunei</i> (Lindl.) Fedde
Gong Xian Teng	<i>Mallotus repandus</i> (Willd.) Muell.
Gou Gi	<i>Lycium barbarum</i> L., <i>L. ovatum</i> Loisel., <i>L. turbinatum</i> Loisel., <i>L. megistocarpum</i> Dun., <i>L. trewianum</i> G. Don, <i>Poncirus trifoliata</i> Rafin
Gou Gu	<i>Mahonia japonica</i> DC
Gou Ji Guan Zhong	<i>Woodwardia japonica</i>
Gou Ma	<i>Abutilon theophrasti</i> Malv., <i>A. avicennae</i> Gaertn. Fruct. Sem.
Gou Mei	<i>Myrica rubra</i> (Lour.) Sieb. et Zucc.
Gou Min	<i>Gelsemium sempervirens</i> (L.) Ait.
Gou Shi Cao	<i>Senecio campestris</i> (Retz.) DC
Gou Teng	<i>Nauclea rhynchophylla</i> Miq., <i>N. sinensis</i> Oliv., <i>Uncaria hirsuta</i> Havil, <i>U. rhynchophylla</i> Miq.
Gua Di	<i>Cucumis melo</i> L.
Gua Lou	<i>Trichosanthes kirilowii</i> Maxim., <i>T. uniflora</i> Hao
Guan Ye Lean Qiao	<i>Hypericum perforatum</i> L.
Guan Zhong	<i>Dryopteris crassirhizoma</i> Nakai, <i>D. crassirhizoma</i> Nakai, <i>Aspidium falcatum</i> Sw.
Guang Feng Lun Cai	<i>Clinopodium gracile</i> (Benth.) O. Kuntze.
Gui Hua	<i>Osmanthus fragrans</i> (Thunb.) Lour.
Gui Zhi	<i>Cinnamomum cassia</i> Presl., <i>C. aromaticum</i> Nees.
Guo Gang Long	<i>Entada phaseoloides</i> (L.) Merrill.
Guo Ko Yi	<i>Erythroxylum coca</i> Lam.
Guo Tan Loan	<i>Adiantum flabellulatum</i> L.
Hai Dai	<i>Laminaria angusta</i> Kjellm., <i>L. japonica</i> Aresch., <i>L. longipedalis</i> Okam., <i>L. religiosa</i> Miyabe., <i>L. cichorioides</i> Miyabe.
Hai Jin Sha Teng	<i>Lygodium japonicum</i> Swartz.
Hai Tong Pi	<i>Erythrina indica</i> Lam., <i>E. variegata</i> L.
Hai Zao	<i>Sargassum pallidum</i>

Chinese Name	Scientific Name
Han Cai	<i>Rorippa indica</i> (L.) Hiern., <i>R. islandica</i> (Oeder) Borbas
Han Mai Bin Cao	<i>Silene jennisseensis</i> Willd., <i>S. jennisseensis</i> Willd. f. <i>parviflora</i> (Turcz.) Schischk., <i>S. jennisseensis</i> Willd. f. <i>dasyphylla</i> (Turcz.) Schischk., <i>S. jennisseensis</i> Willd. var. <i>viscifera</i> Y. C. Chu, <i>S. jennisseensis</i> Willd. f. <i>setifolia</i> (Turcz.) Schischk., <i>S. jennisseensis</i> Willd. var. <i>oliganthella</i> (Nakai ex Kitag.) Y. C. Chu
Han Xiao Hua	<i>Michelia figo</i> DC
Han Xiou Cao	<i>Mimosa pudica</i> L., <i>M. arborea</i> Thunb.
Han Xiou Cao (American)	<i>Mimosa invisa</i> Mart. et Colla
He Huan Pi	<i>Acacia nemu</i> Willd. (Syn. <i>Albizia julibrissin</i>)
He Que She	<i>Portulaca pilosa</i> L.
He Shi	<i>Carpesium abrotanoides</i> L., <i>C. athunbergianum</i> Sieb. et Zucc.
He Shou Wu	<i>Polygonum multifolrum</i> Thunb.
He Ye	<i>Nelumbium nelumbo</i> Druce.
He Zi	<i>Terminalia chebula</i> Retz.
Hei Nan Pu Tao	<i>Syzygium cuminii</i> (L.) Skeels
Hei Shuo	<i>Melasma arvense</i> (Benth) Handel-Maxxetti
Hi Lu	<i>Anagalis arvensis</i> L.
Hi Tong	<i>Pittosporum tobira</i> (Thunb.) Aiton
Hie Quin Cao	<i>Cibotium barometz</i> (L.) J. Smith
Hin Gu Cao	<i>Ajuga bracteosa</i> Wallich, <i>A. decumbens</i>
Hong Gin Tian	<i>Rhodiola elongata</i> (Ledeb.) Fisch. & Meyer
Hong Guan Yao	<i>Aster ageratoides</i>
Hong Je Dan Hua	<i>Plumeria rubra</i> L.
Hong Jua	<i>Carthamus tinctorius</i> L.
Hong Ma Feng Shu	<i>Jatropha gossypifolia</i> L. var. <i>delgans</i> Muel.
Hong Mao Dan	<i>Nephelium lappaceum</i>
Hong Mei Xiao	<i>Rubus parvifolius</i> L.
Hong Men Lan	<i>Orchis latifolia</i> L.
Hong Nan	<i>Machilus thunbergii</i> Sieb. et Zucc.
Hong Pi	<i>Styrax suberifolus</i> Hook. et Arnott.

Hong Si Xian	<i>Solanum biflorum</i> Loureiro
Hong Teng	<i>Sargentodoxa cuneata</i>
Hong Tu Cao	<i>Blumea lacera</i> (Burm. f.) DC
Hong Xian Ren Dong	<i>Lonicera hypoglauca</i> Miq.
Hou Po	<i>Magnolia hypoleuca</i> Diels., <i>M. officinalis</i> Rehd. et Wils.
Hu Chang	<i>Polygonum cuspidatum</i> Siebold & Zucc.
Hu Gu Xiao	<i>Sambucus formosana</i> Nakai
Hu Hua Pi	<i>Albizia julibrissin</i> Duraz., <i>A. lebbeck</i> (L.) Benth
Hu Huang Lain	<i>Picrorhiza kurroa</i> Royle.
Hu Ji Shang	<i>Viscum album</i> L. subsp. <i>coloratum</i> Kom., <i>V. album</i> L. subsp. <i>coloratum</i> Kom. f. <i>rubroaurantiacum</i> (Makino) Kitag., <i>V. coloratum</i> , Hu Jiao <i>Piper nigrum</i> L.
Hu Li Wei	<i>Uraria crinita</i> Desvaux
Hu Lu Cao	<i>Desmodium triquetrum</i> (L.) DC
Hu Tao Ren	<i>Juglans mandshurica</i> Maxim., <i>J. regia</i> L.
Hu Tin Chi	<i>Elaeagnus umbellata</i> Thunb., <i>E. pungens</i> Thunb.
Hu Tin Chi (Tiawan)	<i>E. formosana</i> Nakai
Hua Jiao	<i>Zanthoxylum schinifolium</i> Sieb. et Zucc.
Hua Qian Jin Teng	<i>Stephania sinica</i>
Hua Shan Seng	<i>Physochlaina infundibularis</i>
Huai Hua	<i>Sophora japonica</i> L.
Huai Niu Teng	<i>Achyranthes bidentata</i> L.
Huan Hun Cao	<i>Senecio cannabifolius</i> Lessing
Huang Bai	<i>Phellodendron amurense</i> Rupr., <i>P. amurense</i> Rupr. f. <i>molle</i> (Nakai) Y. C. Chu, <i>P. chinensis</i> Schneid
Huang Bai Mu	<i>Magnolia japonica</i> (Thunb.) DC
Huang Gen Cao	<i>Rubia akane</i> Nakai
Huang Ging	<i>Polygonatum chinense</i> Kunth., <i>P. cirrhifolium</i> Royle., <i>P. macropodium</i> Turcz. <i>P. sibiricum</i> Delar. ex Redoute, <i>P. stenophyllum</i> Maxim.
Huang Gua	<i>Cucumis sativus</i> L.
Huang Hua Jia Zhu Tao	<i>Thevetia peruviana</i> (Pers.) K. Schum.
Huang Hua Xuan Cao	<i>Hemerocallis flava</i> L.

Chinese Name	Scientific Name
Huang Lian	<i>Coptis japonica</i> Makino, <i>C. teeta</i> Wall., <i>C. chinensis</i> Franch.
Huang Lu	<i>Cotinus coggygia</i> Scop.
Huang Ma	<i>Corchorus capsularis</i> L.
Huang Qin (Taiwan)	<i>Scutellaria formosana</i> Brown
Huang Qin	<i>S. baicalensis</i> Georgi, <i>S. grandiflora</i> Adams, <i>S. lanceolaria</i> Miq., <i>S. macrantha</i> Fisch., <i>S. rivulararis</i> Benth., <i>S. viscidula</i> Bunge
Huang Shui Jia	<i>Solanum incanum</i> L.
Huang Teng	<i>Fibraurea recisa</i> , <i>Daemonorops margaritae</i> (Hance) Beccari
Huang Wu Tien	<i>Caesalpinia pulcherrima</i> Swartz
Huang Yang (Taiwan)	<i>Buxus microphylla</i> Sieb. et Zucc.
Huang Yao Zi	<i>Dioscorea bulbifera</i> L.
Huang Zhi	<i>Astragalus complanatus</i> R. Fr. ex Bunge., <i>A. melilotoides</i> Pallas, <i>A. mongholicus</i> Bunge., <i>A. reflexistipulus</i> Franch., <i>A. hoantchy</i> Franch., <i>A. membranaceus</i> (Fisch.) Bunge., <i>A. sinensis</i> L., <i>A. henyri</i> Oliv.
Hui Hui Suan	<i>Ranunculus chinensis</i> Bunge.
Hui Mao Dou	<i>Tephrosia purpurea</i> Persoon
Hui Qin	<i>Pimpinella thellungiana</i> Wolff, <i>P. thellungiana</i> Wolff var. <i>tenuisecta</i> Chu
Huo Ma Ren	<i>Cannabis chinensis</i> Del., <i>C. sativa</i> L.
Huo Qin Hua	<i>Haemanthus multiflorus</i> Mart. ex Willd.
Huo Tan Mo Cao	<i>Polygonum chinensis</i> L.
Huo Xiang	<i>Pogostemon cablin</i> Benth., <i>Agastache rugosa</i> (Fisch. & Mey.) O. Kuntze, <i>A. rugosa</i> (Fisch. & Mey.) O. Kuntze f. <i>hypoleuca</i> (Maxim.) Hara, <i>Lophanthus chinensis</i> Walp., <i>L. rugosus</i> Fisch. et Mey.
Huo Yu Jin	<i>Euphorbia antiquorum</i> L.
Huong Jing	<i>Vitex nequundo</i> L.
India Bian Teng	<i>Flagellaria indica</i> L.
Indian Ren Xian	<i>Acalypha indica</i> L.
Indian Tian Qing	<i>Sesbinia sesbin</i> (L.) Merrill.
Japan Jin Fen Ju	<i>Onychium japonicum</i> (Thunb.) Kunze.
Japan Liu Shan	<i>Cryptotaenia japonica</i> Hasskarl
Japan Mu Fang Ji	<i>Cocculus sarmentosus</i> DC

Japan Mu Gua	<i>Chaenomeles japonica</i> (Thunb.) Lind.
Japan Niu Teng	<i>Achyranthes japonica</i> (Miq.) Nakai
Japan Nu Zhen	<i>Ligustium japonicum</i> Thunb.
Japan She Gen Cao	<i>Ophiorrhiza japonica</i> Blume.
Japan Su	<i>Castanea mollissima</i> Blume., <i>C. crenata</i> Sieb. et Zucc.
Je Koo Cai	<i>Calloglossa lepieurii</i>
Je She	<i>Morinda citrifolia</i> L.
Ji Guan Hua	<i>Celosia argentea</i> var. <i>cristata</i> Bth., <i>C. cristata</i> L.
Ji Mu	<i>Loropetalum chinense</i> (R. Br.) D. Oliver
Ji Xue Cao	<i>Centella asiatica</i> (L.) Urb.
Ji Xue Teng	<i>Milletia reticulata</i> Benth., <i>Spatholobus suberectus</i>
Jia Gou Ju	<i>Matteuccia struthiopteris</i> (L.) Todaro
Jia Mu	<i>Aralia chinensis</i> L., <i>A. cordata</i> Thunb. var. <i>continentalis</i> (Kitag.) Y. C. Chu, <i>A. elata</i> (Miq.) Seem., <i>A. elata</i> (Miq.) Seem. F. <i>subinermis</i> Y. C. Chu
Jia Zhu Tao	<i>Nerium indicum</i> Mill.
Jian Xui Fuan Hou	<i>Antiaris toxicaris</i> (Pers.) Lesch.
Jian Zi Mu	<i>Cornus macrophylla</i> Wallich
Jiang Sun	<i>Polygonatum odoratum</i> (Mill.) Druce var. <i>pluriflorum</i> (Miq.) Ohwi f. <i>ovarifolium</i> Y. C. Chu, <i>P. vulgare</i> Desf.
Jiang Zhen Xiang	<i>Acronychia pedunculata</i> (L.) Miquel.
Jiao Cao	<i>Valeriana alternifolia</i> Bunge, <i>V. amurensis</i> P. Smiru. ex. Kom., <i>V. subbipinnatifolia</i> A. Baranow., <i>V. fauriei</i> Briq., <i>V. alternifolia</i> Bunge. var. <i>stolonifera</i> Baranov & Skv., <i>V. fauriei</i> Briq. Var. <i>dasycarpa</i> Hara, <i>V. alternifolia</i> Bunge var. <i>stolonifera</i> Baranov & Skv. F. <i>angustifolia</i> (Kom.) Kitag.
Jie Cai	<i>Capsella bursa-pastoris</i> (L.) Medicus
Jie Geng	<i>Platycodon grandiflorum</i> DC, <i>P. grandiflorum</i> DC, <i>P. autumnalis</i> Decne., <i>P. sinensis</i> Lam.
Jie Geng	<i>Campanula gentianoides</i> Lam., <i>C. grandiflora</i> Jacq., <i>C. giauxa</i> Thunb.
Jie Gu Mu	<i>Sambucus coreana</i> Kom. & Klob. Alisova, <i>S. sieboldiana</i> (Miq.) Blume ex Graebner var. <i>miquelii</i> (Nakai) Hara, <i>S. manshurica</i> Kitag., <i>S. latipinna</i> Nakai, <i>S. williamsii</i> Hance, <i>S. peninsularis</i> Kitag.
Jin Cai	<i>Viola acuminata</i> Ledeb., <i>V. patrini</i> DC ex Ging., <i>V. alisoviana</i> Kiss, <i>V. alisoviana</i> Kiss f. <i>intermedia</i> (Kitag.) Takenouchi, <i>V. verecunda</i> A. Gray, <i>V. mandshurica</i> W. Becker, <i>V. collina</i> Bess., <i>V. alisoviana</i> Kiss f. <i>candida</i> (Kitag.) Takenouchi, <i>V. dissecta</i> Ledeb., <i>V. dissecta</i> Ledeb. f. <i>pubescens</i> (Regel) Kitag., <i>V. prionantha</i> Bunge

Chinese Name	Scientific Name
Jin Cao	<i>Arthraxon hispidus</i> (Thunb.) Makino
Jin Chuang Xian Cao	<i>Ajuga pygmaea</i> A. Gray
Jin Deng Long	<i>Physalis alkekengi</i> L. var. <i>francheti</i> (Mast.) Makino
Jin Gan	<i>Fortunella crassifolia</i> Swingle
Jin Gi Er	<i>Caragana sinica</i> Lam.
Jin Gi Er	<i>C. microphylla</i> Lam.
Jin Gi Er	<i>C. intermedia</i> Kuang
Jin Gi Er	<i>C. franchetiana</i> Koma
Jin Gu Cao	<i>Lycopodium cernuum</i> L.
Jin He Huan	<i>Acacia farnesiana</i> Willd.
Jin Jia Dou	<i>Phaseolus angularis</i> (Willd.) W. F. Wight, <i>P. radiatus</i> L., <i>P. vulgaris</i> L., <i>P. lunatus</i> L.
Jin Jing Zi	<i>Rosa acicularis</i> Lindl., <i>R. koreana</i> Kom., <i>R. davurica</i> Pall., <i>R. amygdalifolia</i> Ser., <i>R. davurica</i> Pall. var. <i>alpestris</i> (Nakai) Kitag., <i>R. laevigata</i> Michx., <i>R. maximowicziana</i> Regel
Jin Ju	<i>Fortunella margarita</i> (Lour.) Swin.
Jin Moa	<i>Thlaspi arvense</i> L.
Jin Qian Cao	<i>Glechoma longituba</i> (Nakai) Kuprijan., <i>G. hederacea</i> L. var. <i>grandis</i> (A. Gray) Kudo
Jin Qian Chao	<i>Lysimachia barystachys</i> Bunge., <i>L. clethroides</i> Duby, <i>L. christinae</i> , <i>L. davurica</i> Ledeb., <i>L. davurica</i> Ledeb. f. <i>latifolia</i> Korsh., <i>L. salicaria</i> L. var. <i>glabrum</i> Ledeb.
Jin Que Hua	<i>Cytisus scoparius</i> (L.) Link.
Jin Si Tao	<i>Hypericum attenuatum</i> Choisy, <i>H. japonicum</i> Thunb., <i>H. ascyron</i> L.
Jin Tsan Jiu	<i>Calendula officinalis</i> L.
Jin Xian Diao Wu Gui	<i>Stephania cepharantha</i>
Jin Yang Huo	<i>Epimedium koreanum</i> Nakai, <i>E. macranthum</i> Moore et Decne., <i>E. brevicorum</i>
Jin Yin Hua	<i>Lonicera brachypoda</i> DC
Jing Jie	<i>Schizonepeta multifida</i> (L.) Briquet, <i>S. tenuifolia</i> (Benth.) Briquet
Jing Mian Cao	<i>Lemmaphyllum microphyllum</i> Presl.
Jing Tian	<i>Sedum erythrostichum</i> Miq., <i>S. kamtschaticum</i> Fisch., <i>S. verticillatum</i> L., <i>S. sarmentosum</i> Bunge.
Jing Tian San Qi	<i>S. aizoon</i> L.
Jiu Hong	<i>Citrus reticulata</i> Blanco var. <i>chachiensis</i>

Jiu Hua	<i>Chrysanthemum koraiense</i> Nakai, <i>C. sinense</i> Sabine., <i>C. morifolium</i> Ramat., <i>C. jucundum</i> Nakai & Kitag., <i>C. boreale</i> (Makino) Makino
Jiu Hua Teng	<i>Bauhinia championi</i> Benth
Jiu Jie Cha	<i>Chloranthus glubra</i> (Thunb.) Nakai
Jiu Jie Mu	<i>Psychotria rubra</i> (Lour.) Poir.
Jiu Li Xiang	<i>Murraya paniculata</i> (L.) Jack
Jiu Pi	<i>Citrus deliciosa</i> Tenore, <i>C. nobilis</i> Lour.
Joe Koo Lan	<i>Gynostemma pentaphyllum</i> (Thunb.) Makino
Ju Shi Cai	<i>Sonchus arvensis</i> L., <i>S. oleraceus</i> L.
Juan Bai	<i>Selaginella tamarisina</i> (Beauv.) Spring
Jue Ming Zi	<i>Cassia obtusifolia</i> L., <i>C. nomame</i> (Sieb.) Honda
Jun Zi Lian	<i>Clivia miniata</i> Lindley
Ko Cho Mo	<i>Fagopyrum tataricum</i> (L.) Gaertn.
Kong Xin Lian Zi Cao	<i>Alternanthera philoxeroides</i> (Mart.) Griseb.
Koo Jing Cao	<i>Eriocaulon sieboldianum</i> Stend.
Korean Si Zhao Hua	<i>Cornus walteri</i> Wangerin
Korean Yan Hu Suo	<i>Corydalis ternata</i> (Nakai) Nakai
Ku Dong Zi	<i>Sophora alopecuroides</i>
Ku Gua	<i>Momordica charantia</i> L.
Ku Lian Chi	<i>Melia azedarach</i> L.
Ku Lian Pi	<i>Melia azedarach</i> L.
Ku Seng	<i>Sophora flavescens</i> Ait.
Ku Shu	<i>Picrasma quassioides</i> (D. Don) Benn., <i>P. quassioides</i> (D. Don) Benn. f. <i>dasycarpa</i> Kitag.
Ku Zhi	<i>Physalis angulata</i> L.
Kuan Dong Hua	<i>Tussilago farfara</i> L.
Kuei Chen Gao	<i>Bidens bipinnata</i> L., <i>B. parviflora</i> Willd.
Kui Shu Zi	<i>Livistona chinensis</i> (Jacq.) R. Br. ex Mart.
Kun Bu	<i>Laminaria angusta</i> Kjellm., <i>L. longipedalis</i> Okam., <i>L. religiosa</i> Miyabe., <i>L. japonica</i> Aresch., <i>L. cichorioides</i> Miyabe.
La Lian	<i>Polygonum hydropiperoides</i> Michx.
Lai Ye Sheng Ma	<i>Actaea asiatica</i> Hara

Chinese Name	Scientific Name
Lang Ba Cao	<i>Bidens tripartita</i> L.
Lao Huan Cao	<i>Geranium eriostemon</i> Fisch. ex DC f. <i>hypoleucum</i> (Nakai) Y. C. Chu, <i>G. dahuricum</i> DC, <i>G. eriostemon</i> Fisch. ex DC, <i>G. wilfordi</i> Maxim., <i>G. wlassowianum</i> Fisch. ex Link, <i>G. sibiricum</i> L., <i>G. eriostemon</i> Fisch. ex DC f. <i>megalanthum</i> (Nakai) Y. C. Chu
Lao Jium Xiu	<i>Usnea diffracta</i> Dill. ex Adans.
Lei Gong Teng	<i>Tripterygium wilfordii</i> Hook. f.
Lei Wan	<i>Omphalia lapidescens</i>
Li Chi	<i>Litchi chinensis</i> Sonn.
Li Chun Hua	<i>Papaver rhoeas</i> L.
Li Lu	<i>Veratrum dahuricum</i> (Turcz.) Loes f., <i>V. maackii</i> Regel, <i>V. nigrum</i> L.
Li Lu (Taiwan)	<i>V. formosanum</i> Loesener
Li Shu	<i>Quercus acutissima</i> Carr., <i>Q. dentata</i> Thunb., <i>Q. variabilis</i> Blume, <i>Q. mongolica</i> Fisch. ex Turcz., <i>Q. aliena</i> Blume var. <i>acutiserrata</i> Maxim. ex Wenzig, <i>Q. liaotungensis</i> Koidz.
Li Tou Cao	<i>Typhonium divaricatum</i> (L.) Decaisne
Li Zhi Cao	<i>Salvia plebeia</i> R. Brown
Lian	<i>Nelumbium nuciferum</i> Gaertner, <i>N. speciosum</i> Willd.
Lian Qiao	<i>Forsythia suspensa</i> (Thunb.) Vahl., <i>Syringa dilatata</i> Nakai, <i>S. oblata</i> Lindley, <i>S. reticulata</i> (Blume) Hara var. <i>mandshurica</i> (Maxim.) Hara, <i>S. oblata</i> Lindley var. <i>alba</i> Hort. ex Rehd., <i>S. vulgaris</i> L., <i>S. suspensa</i> Thunb. (Syn. <i>Forsythia suspensa</i>)
Lian Zi Xin	<i>Nelumbium nelumbo</i> Druce.
Liang Shi	<i>Hyoscyamus bohemicus</i> F. W. Schmidt, <i>H. niger</i> L.
Liao Ge Wang	<i>Wikestroemia indica</i>
Lie Xiang Du Juan	<i>Rhododendron anthopogon</i> D. Don
Ling	<i>Trapa bispinosa</i> Roxburgh
Ling Bi Long	<i>Psychotria serpens</i> L.
Ling Lan	<i>Convallaria keiskei</i> Miq.
Ling Nan Huai	<i>Sophora tomatosa</i> L.
Ling Zhi	<i>Ganoderma lucidum</i> (Polyporaceae)
Liu Chun Yu	<i>Linaria vulgaris</i> Miller subsp. <i>sinensis</i> (Bebeaux) Hong

Liu Lan	<i>Chamaenerion angustifolium</i> (L.) Scop. f. <i>pubescens</i> (Hausskn.) Kitag., <i>C. angustifolium</i> (L.) Scop.
Liu Shen Cao	<i>Spilanthes acmella</i> L. var. <i>oleracea</i> Clarke
Liu Xing Zi	<i>Vaccaria pyramidata</i> Medic.
Liu Ye	<i>Salix babylonica</i> L.
	<i>S. matsudana</i> Koidz., <i>S. microstachya</i> Turcz. ex Trautv.
Liu Ye Cai	<i>Epilobium amurense</i> Haussku., <i>E. palustre</i> L., <i>E. hirsutum</i> L.
Lo Han Song	<i>Podocarpus macrophyllus</i> (Thunb.) D. Don
Lo Huang Zi	<i>Tamarindus indicus</i> L.
Lo Sheng Kui	<i>Hibiscus sabdariffa</i> L.
Loan Mao Cao	<i>Agrimonia eupatoria</i> L., <i>A. viscidula</i> Bunge., <i>A. pilosa</i> Ledeb., <i>A. pilosa</i> Ledeb. var. <i>simplex</i> T. Shimizu, <i>A. pilosa</i> Ledeb. var. <i>japonica</i> (Miq.) Nakai, <i>A. pilosa</i> Ledeb. var. <i>viscidula</i> (Bunge.) Kom.
Loan Now Xiang	<i>Dryobalanops aromatica</i> Gaertn., <i>D. camphora</i> Colebr.
Long Dan	<i>Gentiana squarrosa</i> Ledeb., <i>G. manshurica</i> Kitag., <i>G. algida</i> Pall., <i>G. scabra</i> Bunge., <i>G. barbata</i> Froel., <i>G. olivieri</i> DC, <i>G. triflora</i> Pall.
Long Kui	<i>Solanum nigrum</i> L.
Lou Lu	<i>Echinops grijsii</i> Hance, <i>E. gmelini</i> Ledeb., <i>E. dahuricus</i> Fisch., <i>E. sphacrocephalus</i> Miq.
Lour Lu	<i>Rhaponticum uniflorum</i> Ludl.
Lu Cao	<i>Humulus scandens</i> (Lour.) Merr.
Lu Er Jin	<i>Laggera alata</i> (D. Don) Schultz-Bip ex Oliver
Lu Gen	<i>Phragmites communis</i> Trin.
Lu Teng	<i>Milletia taiwaniana</i> (Matsum.) Hayata
Lu Wen	<i>Aloe barbadensis</i> Miller var. <i>chinensis</i> Berger, <i>A. vera</i> L.
Lu Xian	<i>Amaranthus lividus</i> L., <i>A. viridis</i> L.
Lu Xian Cao	<i>Pyrola decorata</i> , <i>P. incarnata</i> Fisch. ex DC, <i>P. rotundifolia</i> L., <i>P. japonica</i> Klenze ex Alefeld, <i>P. renifolia</i> Maxim.
Lu Yao	<i>Smilacina japonica</i> A. Gray
Lu Zhu	<i>Arundo donax</i> L.
Lun Ye Sha Seng	<i>Adenophora verticillata</i> Fisch.
Luo Bu Ma	<i>Apocynum venetum</i>
Luo Fu Mu	<i>Rauvolfia verticillata</i> (Lour.) Baill.
Luo Han Guo	<i>Momordica grosvenori</i> Swingle

Chinese Name	Scientific Name
Luo Hua	<i>Arachis hypogaea</i> L.
Luo Hua Zi Zhu	<i>Callicarpa nudiflora</i> Hook & Am.
Luo Shi	<i>Trachelospermum jasminoides</i> Lam., <i>Parechites adnascens</i> Hance, <i>P. thunbergii</i> A. Gray
Luo Ti Cao	<i>Caltha palustris</i> L. var. <i>membranacea</i> Turcz., <i>C. palustris</i> L. var. <i>sibirica</i> Regel
Luo Xing Fu	<i>Astilbe longicarpa</i> (Hay.) Hayata
Ma An Teng	<i>Iris pes-caprae</i> (L.) Sweet subsp. <i>brasiliensis</i> (L.) Oostst.
Ma Bian Cao	<i>Verbena officinalis</i> L., <i>V. oxysepalum</i> Turcz.
Ma Bo	<i>Lasiosphaera nipponica</i> Reichardt
Ma Chi Xian	<i>Portulaca oleracea</i> L.
Ma Dou Ling	<i>Aristolochia contorta</i> Bunge., <i>A. recurvilabra</i> Hance, <i>A. kaempferi</i> Willd., <i>A. longa</i> Thunb.
Ma Dou Ling (Taiwan)	<i>A. shimadai</i> Hayata
Ma Huang	<i>Ephedra distachya</i> L., <i>E. intermedia</i> Schrenk ex Mey., <i>E. sinica</i> Stapf., <i>E. monosperma</i> Gmel. ex. Mey., <i>E. equisetina</i> Bunge.
Ma Lan Zi	<i>Iris pallasii</i>
Ma Qian Zi	<i>Strychnos pierriana</i>
Ma Wei Lian	<i>Thalictrum ichangense</i> Lecoyer ex Oliver
Ma Xian Gao	<i>Pedicularis resupinata</i> L., <i>P. resupinata</i> L. f. <i>ramosa</i> Kom., <i>P. resupinata</i> L. f. <i>pubescens</i> Kom.
Mai Dong	<i>Ophioglossum japonicus</i> (Thunb.) Ker-Gawl.
Mai Liang Cai	<i>Elephantopus molis</i> H. B. K.
Mai Meng Dong	<i>Ophiopogon gracilus</i> Kunth., <i>O. longifolius</i> Decne., <i>O. spicatus</i> Ker-Gawl., <i>Draceana graminifolia</i> L., <i>Liriope graminifolia</i> Bak., <i>L. spicata</i> Lour., <i>L. platyphylla</i> Wang & Tang
Mai Ya	<i>Hordeum vulgare</i> L.
Man Jiang Hong	<i>Azolla imbricata</i> (Roxb.) Nakai
Man Shan Hong	<i>Rhododendron dahuricum</i> DC
Man Ti Xian	<i>Alternanthera sessilis</i> (L.) R. Brown
Man Tu Luo	<i>Datura tatula</i> L., <i>D. stramonium</i> L., <i>D. metel</i> L., <i>D. alba</i> Nees., <i>D. fastuosa</i> L. var. <i>alba</i> Clark, <i>D. innoxia</i> Mill.
Mang Ji	<i>Dicranopteris linearis</i> (Burm. f.) Under.
Mao Di Huang	<i>Digitalia sanguinalis</i> (L.) Scop. var. <i>ciliaris</i> (Retz.) Parl., <i>D. purpurea</i> L., <i>D. sanguinalis</i> (L.) Scop.
Mao Dong Qing	<i>Ilex pubescens</i> Hook & Am.

Mao Dong San Hu	<i>Solanum capsicastrum</i> Link.
Mao Gao Cai	<i>Drosera burmanni</i> Vahl., <i>D. anglica</i> Hudson, <i>D. rotundifolia</i> L.
Mao Guo Yan Ming Cao	<i>Rabdosia lasiocarpus</i> (Hayata) Hara
Mao Liang	<i>Ranunculus japonicus</i> Thunb., <i>R. sarmentosa</i> Adams
Mao Xian	<i>Hierochloa odorata</i> (L.) Beauv.
Mao Zhua Chao	<i>Ranunculus ternatus</i> Thunb.
Mar Dong	<i>Ophiopogon japonicus</i> Wall.
Mei Deng Mu	<i>Maytenus serrata</i> (Hochst. ex A. Rich) Wilcz.
Mei Gui Hua	<i>Rosa rugosa</i> Thunb.
Mei Hua Cao	<i>Parnassia palustris</i> L.
Mei Li Cao	<i>Chimaphila umbellata</i> (L.) W. Barton
Mei She Chao	<i>Calloglossa lepieurii</i>
Mi Hou Tao	<i>Actinidia arguta</i> (Sieb. et Zucc.) Planch. ex. Miq., <i>A. japonica</i> Nakai, <i>A. kolomikta</i> (Maxim. ex. Rupr.) Maxim., <i>A. polygama</i> (Sieb. et Zucc.) Planch. ex Maxim. Chang, <i>A. chinensis</i>
Mi Meng Hua	<i>Buddleia madagascariensis</i> Hance, <i>B. officinalis</i> Maxim.
Mian Bao Shu	<i>Artocarpus altilis</i> (Park.) Fosberg.
Mian Hua Gen	<i>Gossypium herbaceum</i> L.
Mian Ma Guan Zhong	<i>Dryopteris laeta</i> (Kom.) Christ.
Mian Zi Soo	<i>Gossypium herbaceum</i> L.
Min Dong Seng	<i>Changium smyrnioides</i> Wolff.
Mo Han Lian	<i>Eclipta erecta</i> L.
Mo Ja Chao	<i>Equisetum hyemale</i> L., <i>E. ramosissimum</i> Desf., <i>E. arvense</i> L.
Mo Li Hua	<i>Jasminum sambra</i> (L.) Aiton
Mo Yao	<i>Commiphora myrrha</i> Engler
Mo Yue	<i>Amorphophallus rivieri</i> Durieu
Moo Tune	<i>Akebia quinata</i> (Hoytt.) Decne.
Mu Dan Pi	<i>Paeonia obovata</i> Maxim., <i>P. suffruticosa</i> Andr., <i>P. veitchii</i> Lynch.
Mu Er Cao	<i>Gynura bicolor</i> DC
Mu Fang Ji	<i>Cocculus trilobus</i> (Thunb.) DC, <i>C. laurifolius</i> DC
Mu Gui	<i>Osmanthus fragrans</i> (Thunb.) Lour

Chinese Name	Scientific Name
Mu Jin	<i>Hibiscus chinensis</i> DC, <i>H. syriacus</i> L., <i>H. trionum</i> L.
Mu Jing	<i>Vitex chinensis</i> Miller, <i>V. jeguaod</i>
Mu Jing Chi	<i>Vitex trifolia</i> L. var. <i>simplicifolia</i> Cham.
Mu Lan	<i>Magnolia liliiflora</i> Desr.
Mu Tong	<i>Clematis heracleifolia</i> DC var. <i>dauidiana</i> (Decaisue ex Verlot) O. Kuntze, <i>C. heracleifolia</i> DC, <i>C. armandii</i> Franch. <i>Aristolochia manshuriensis</i> Kom.
Mu Tou Hui	<i>Patrinia heterophylla</i>
Mu Xiang	<i>Aucklandia costus</i> Falc.
Mu Xu	<i>Medicago falcata</i> L., <i>M. polymorpha</i> L., <i>M. lupulina</i> L., <i>M. sativa</i> L., <i>M. ruthenica</i> (L.) Ledeb.
Mu Yu Ma	<i>Boehmeria densiflora</i> Hooker et Arnott
Mu Ziang	<i>Saussurea japonica</i> (Thunb.) DC, <i>S. japonica</i> (Thunb.) DC var. <i>maritima</i> Kitag., <i>S. japonica</i> (Thunb.) DC f. <i>alata</i> (Chen) Kitag., <i>S. lapa</i> Clarke
Na Yang Shan	<i>Araucaria cunninghamii</i> Aitonex Sweet
Nan Gua Zi	<i>Cucurbita moschata</i> Duch. var. <i>melonaeformis</i> (Carr.) Makino, <i>C. pepo</i> L.
Nan He Chi	<i>Daucus carota</i> L. subsp. <i>sative</i> Hoffm.
Nan Tian Zhu	<i>Nandina domestica</i> Thunb.
Nan Wu Wei Zi	<i>Kadsura japonica</i> (L.) Dunal
Nan Zhu	<i>Lyonia ovalifolia</i> (Wall.) Drude.
Nei Don Zi	<i>Lindera obtusiloba</i> Blume f. <i>villosa</i> (Blume) Kitag., <i>L. akoensis</i> Hayata
Ning Meng Sian Mao	<i>Cymbopogon eitratus</i> (DC) Stapf.
Niu Bang Chi	<i>Arctium lappa</i> L., <i>Lappa communis</i> Coss et Germ., <i>L. edulis</i> Sieb., <i>L. minor</i> DC, <i>L. major</i> Gaerth.
Niu Fang Feng	<i>Heracleum dissectum</i> Ledeb.
Niu Zi Qie	<i>Solanum indicum</i> L.
Nou Me	<i>Oryza sativa</i> L.
Nu Zhen Zi	<i>Ligustium lucidum</i> Mill
Pa Jiao Lian	<i>Dysosma pleiantha</i> (Hance) Woodson
Pai Lan (Taiwan)	<i>Eupatorium formosanum</i> L.
Pai Qian Chao	<i>Desmodium pulehellum</i>
Pai Qian Shu	<i>Phyllodium pulchellum</i> (L.) Desvaux.

Pan Chan Teng	<i>Cassytha filliformis</i> L.
Pei Lan	<i>Eupatorium odoratum</i> L.
Peng Lai Teng	<i>Pericamylus formosanus</i> Diels
Peng Wo Mao	<i>Curcuma phaeocoulis</i> Val.
Peng Zi Cao	<i>Galium verum</i> L. var. <i>leiocarpum</i> Ledeb., <i>G. verum</i> L. var. <i>trachycarpum</i> DC
Pi Jiang	<i>Alpinia kumatake</i> Mak.
Pi Pa Yie	<i>Eriobotrya japonica</i> Linkdl.
Pin Di Mu	<i>Ardisia japonica</i> (Hornst.) Blume
Pin Peng Cao (Japan)	<i>Nuphar japonicum</i> DC, <i>N. pumilum</i> (Timm) DC
Po Po Na	<i>Veronica sibirica</i> L., <i>V. sibirica</i> L. f. <i>glabra</i> (Nakai) Kitag., <i>V. undulata</i> Wallich
Po Shu	<i>Celtis bungeana</i> Blume, <i>C. sinensis</i> Pers.
Po Yen	<i>Rhus semialata</i> Murr.
Pu Gong Ying	<i>Taraxacum mongolicum</i> Hand. Mazz., <i>T. sinicum</i> Kitag.
Pu Gong Ying (Taiwan)	<i>Taraxacum formosanum</i> Kitamura
Pu Gong Ying (Western)	<i>Taraxacum officinale</i> G. H. Weber ex Wigg.
Pu Huang	<i>Typha angustata</i> Bory et Chaub., <i>T. latifolia</i> L., <i>T. angustifolia</i> L., <i>T. orientalis</i> Presl., <i>T. minima</i> Hoppe, <i>T. davidiana</i> (Kronfeld) Hand. Mazz., <i>T. praequalis</i> Skv.
Qian Cao	<i>Rubia chinensis</i> Regel & Maack, <i>R. cordifolia</i> Thunb., <i>R. cordifolia</i> L. f. <i>pratensis</i> (Maxim.) Kitag., <i>R. mungista</i> Roxb., <i>R. sylvatica</i> (Maxim.) Nakai
Qian Hu	<i>Angelica decursiva</i> (Miq.) Franch. et Savat., <i>A. pubescens</i> Maxim., <i>A. grosserrata</i> Maxim.
Qian Hu	<i>Peucedanum decursivum</i> Max.
Qian Hu (Taiwan)	<i>Peucedanum formosanum</i> Hayata
Qian Jin Teng	<i>Stephania japonica</i> (Thunb.) Miers.
Qian Jin Zi	<i>Euphorbia kansui</i>
Qian Li Guang	<i>Senecio argunensis</i> Turcz., <i>S. scandens</i> Buch-Ham ex D. Don, <i>S. nemorensis</i> L.
Qian Li Guang (European)	<i>S. vulgaris</i> L.
Qian Qu Cai	<i>Lythrum salicaria</i> L.
Qian Ri Hong	<i>Gomphrena globosa</i> L.
Qian Shi	<i>Euryale ferox</i> Salisb.
Qiang Cao	<i>Parietaria micrantha</i> Ledeb.

Chinese Name	Scientific Name
Qin Cai	<i>Apium graveolens</i> L.
Qin Jiu	<i>Justicia gendarussa</i> L., <i>J. procumbens</i> L., <i>Gentiana dahurica</i> Fisch., <i>G. macrophylla</i> Pall., <i>G. lutea</i> L.
Qing Feng Teng	<i>Sinomenium acutum</i> var. <i>cinereum</i>
Qing Guo	<i>Artemisia annua</i> L., <i>A. apiacea</i> Hance ex Walpers
Qing Mu Xiang	<i>Aristolochia debilis</i> Sieb. et. Zucc.
Qing Ping	<i>Lemna minor</i> L., <i>L. perpusilla</i> Torrey
Qing Ye Dan	<i>Swertia diluta</i> (Turcz.) Benth. et Hook. f., <i>S. mileensis</i> L.
Qiong Zhi	<i>Gelidium amansii</i>
Qiu Jiang	<i>Zingiber zerumbet</i> Smith
Qu Mai	<i>Dianthus superbus</i> , <i>D. barbatus</i> L. var. <i>asiaticus</i> Nakai, <i>D. oreadum</i> Hance
Quan Yuan Guan Zhong	<i>Cytomium falcatum</i> (L. f.) Presl.
Quao Ye Ging Lan	<i>Dracocephalum integrifolium</i> L.
Quian Niu Zi	<i>Pharbitis diversifolia</i> Lindl., <i>P. triloba</i> Miq., <i>P. nil</i> , <i>P. hederacea</i> Choisy
Quian Niu	<i>Ipomoea barbata</i> Both., <i>I. caerulea</i> Koeh., <i>I. hederacea</i> Jacq., <i>I. triloba</i> Thunb
Quin Pi	<i>Fraxinus obovata</i> Blume, <i>F. rhynchophylla</i> Hance, <i>F. chinensis</i> Roxb., <i>F. floribunda</i> Bunge., <i>F. ornus</i> L. var. <i>bungeana</i> Hance, <i>F. bungeana</i> DC
Ren Dong	<i>Lonicera chinensis</i> Wats., <i>L. japonica</i> Thunb., <i>L. flexuosa</i> Thunb., <i>L. maackii</i> (Rupr.) Maxim., <i>L. japonica</i> var. <i>chinensis</i> Bak., <i>L. confusa</i> Miq.
Ren Seng	<i>Panax ginseng</i> C. A. Meyer
Ri Jian Ca Sha Jiang Cao	<i>Oenothera odorata</i> Jacq.
Ron Yen Raw	<i>Nephelium longana</i> Camb.
Rong Cai	<i>Iris aqyatuca</i> Forskal
Rong Shu	<i>Ficus inicrocarpa</i> L.
Rou Dau Kou	<i>Myristica fragrans</i> Houtt.
Ru Xiang	<i>Pistacia lentiscus</i> L.
Rui Ye Ren Dong	<i>Lonicera acuminata</i> Wallich
San Bai Cao	<i>Saururus chinensis</i> (Lour.) Baillon
San Dian Jin Cao	<i>Desmodium triflorum</i> (L.) DC
San Hai Ton	<i>Tripterygium hypoglaucum</i> (Levl.) Hutch.

San Hu Ci Tong	<i>Erythrina corallodendron</i> L.
San Hu Shu	<i>Datura suaveolens</i> Humb. & Bonpl. ex Willd.
San Hu You Tong	<i>Jatropha podagrica</i> Hooker
San Jian Shan	<i>Cephalotaxus fortunei</i>
San Long Zhi	<i>Scopolia tangutica</i> Max.
San Qi	<i>Gynura japonica</i> Mak., <i>G. pinnatifida</i> Vanniot, <i>G. segetum</i> Merr. <i>Panax zingiberensis</i> C. Y. Wu & K. M. Feng
San Se Xian	<i>Amaranthus tricolor</i> L.
San Ya Ko	<i>Evodia lepta</i> (Spreng.) Merrill., <i>E. triphylla</i> DC
San Ye Wu Jia	<i>Acanthopanax trifoliatum</i> (L.) Merr.
Sang Gen Bai Pi	<i>Morus alba</i> L., <i>M. constantinopolitana</i> Poir., <i>M. indica</i> L.
Sang Zhi	<i>M. alba</i> L., <i>M. constantinopolitana</i> Poir., <i>M. indica</i> L.
Se Gua	<i>Luffa faetida</i> Sieb. et Zucc., <i>L. aegyptiaca</i> Mill, <i>L. petola</i> Ser., <i>L. cylindrica</i> Roem., <i>Momordica cylindrica</i> L.
Sha Cao	<i>Cyperus difformis</i> L., <i>C. glomeratus</i> L., <i>C. iria</i> L.
Sha Cha Hua	<i>Camellia japonica</i> L.
Sha Gen Cai	<i>Lobelia pyramidalis</i> Wallich., <i>L. sessilifolia</i> Lambert
Sha Gui Hua	<i>Maesa perlarius</i> (Lour.) Merrill.
Sha Gui Hua (Taiwan)	<i>Maesa tenera</i> Mez.
Sha Hong Fan Cao	<i>Blumea riparia</i> (Blume) DC var. <i>megacephala</i> Randeria
Sha Ji	<i>Hippophae rhamnoides</i> L.
Sha Jiang Cao	<i>Oxalis corriculaza</i> L., <i>O. corymbosa</i> DC
Sha Ma	<i>Corchorus olitorius</i> L.
Sha Ren	<i>Hedychium coronarium</i> Koen., <i>Amomum tsao-ko</i> , <i>A. villosum</i>
Sha Seng	<i>Adenophora coronopifolia</i> Fisch., <i>A. pereskiaefolia</i> (Fisch.) G. Don, <i>A. paniculata</i> Nannf., <i>A. tetraphylla</i> , <i>A. remotiflora</i> (Sieb. et Zucc.) Miq., <i>A. polymorpha</i> Ledeb., <i>A. stenanthina</i> (Ledeb.) Kitag.
Sha Yuan Zi	<i>Astragalus chinensis</i> L. fil.
Sha Zhu Yu	<i>Macrocarpium officinalis</i> (Sieb. et Zucc.) Nakai
Shan	<i>Adamia chinensis</i> Gard. et Champ.
Shan Ci Ko	<i>Iphigenia indica</i> (Syn. <i>Tulipa edulis</i>), <i>Tulipa edulis</i> Bak.
Shan Cong Zi	<i>Litsea cubeba</i>

Chinese Name	Scientific Name
Shan Dou Gen	<i>Menispermum dauricum</i> L., <i>Euchresta japonicum</i> Benth., <i>Sophora subprostrata</i>
Shan Ge	<i>Pueraria montana</i> (Lour.) Merrill., <i>P. thunbergiana</i> Benth.
Shan Guo	<i>Artemisia brachyloba</i> Franch.
Shan Hua Jiao	<i>Zanthoxylum bungeanum</i> Maxim.
Shan Jiang	<i>Alpinia speciosa</i> K. Schum.
Shan Jiu	<i>Sapium discolor</i> Mueller-Arg.
Shan Liu Jiu	<i>Hieracium umbellatum</i> L.
Shan Ma Zi	<i>Ribes mandshurica</i> (Maxim.) Kom., <i>R. mandshurica</i> (Maxim.) Kom. f. <i>subglabrum</i> (Kom.) Kitag.
Shan Na	<i>Kaempferia galanga</i> L.
Shan Pu Tao	<i>Vitis amurensis</i> Rupr., <i>V. vinifera</i> L.
Shan Teng Zi	<i>Viburnum sargentii</i> Koehne f. <i>glabrum</i> Kom., <i>V. sargentii</i> Koehne var. <i>puberulum</i> (Kom.) Kitag., <i>V. sargentii</i> Koehne f. <i>intermedium</i> (Kom.) Kitag.
Shan Wo Ju	<i>Lactuca raddeana</i> Maxim., <i>L. indica</i> L.
Shan Yan Cao	<i>Solanum verbascifolium</i> L.
Shan Yao	<i>Dioscorea opposita</i> Thunb.
Shan Ye Man Shi Song	<i>Lycopodium annotinum</i> L.
Shan Ye Shi Song	<i>Lycopus fargesii</i> Herter
Shan Zha	<i>Crataegus pinnatifida</i> Bunge., <i>C. maximowiczii</i> Schneid., <i>C. dahurica</i> Koehne ex Schneid., <i>C. chlorusarca</i> Maxim., <i>C. pentagyna</i> Waldst. et Kit., <i>C. sanguinea</i> Pall., <i>C. cuneata</i> Sieb. et Zucc.
Shan Zhi	<i>Gardenia angusta</i> (L.) Merrill.
Shan Zhi Ma	<i>Oenothera biennis</i> L.
Shan Zhu Yu	<i>Cornus officinalis</i> Sieb. et Zucc.
Shang Han Cao	<i>Vernonia cinerea</i> (L.) Less.
Shang Lu	<i>Phytolacca acinosa</i> Roxb., <i>P. kaempferi</i> A. Gray, <i>P. octandra</i> Bge., <i>P. pekinensis</i> Hance, <i>P. japonica</i> Makino, <i>P. americana</i> L.
Shao Ci Wu Jia	<i>Acanthopanax senticosus</i> (Rupr. et Maxim.) var. <i>subinermis</i> (Regel) Kitag.
Shao Lan	<i>Cypripedium macranthum</i> Swartz f. <i>albiflorum</i> Y. C. Chu, <i>C. macranthum</i> Swartz, <i>C. guttatum</i> Swartz
She Cheung Zi	<i>Cnidium monnieri</i> (L.) Cusson
She Gan	<i>Belamcanda chinensis</i> (L.) DC, <i>B. paniculata</i> Moench., <i>Iris dichotoma</i> Pallas
She Ma	<i>Humulus lupulus</i> L.

She Mei	<i>Fragaria indica</i> Andr., <i>Duchesnea indica</i> (Andr.) Focke.
Shen Jin Cao	<i>Lycopodium clavatum</i> L. var. <i>nipponicum</i> Nakai, <i>L. obscurum</i> L., <i>L. selago</i> L., <i>L. serratum</i> Thunb.
Shen Liu	<i>Tamarix juniperina</i> Bunge.
Sheng Hong Yu	<i>Ageratum conyzoides</i> L., <i>A. houstonianum</i> Mill
Sheng Jiang	<i>Zingiber officinale</i> Roscoe
Sheng Ma	<i>Cimicifuga foetida</i> L., <i>C. dahurica</i> (Turcz.) Maxim., <i>C. heracleifolia</i> Kom., <i>C. racemosa</i> (L.) Nutt., <i>C. ussuriensis</i> Oettingen
Sheng Teng	<i>Calamus margaritae</i> Hance
Shi Cao	<i>Achillea alpina</i> L., <i>A. millefolium</i> L.
Shi Da Chuan	<i>Oldenlandia chrysotricha</i> L.
Shi Diao Lan	<i>Lysionotus pauciflorus</i> G. Don
Shi Dou	<i>Dendrobium nobile</i> Lindl., <i>Epidendrum monile</i> Thunb.
Shi Hong Hua	<i>Crocus sativus</i> L.
Shi Ji Qing	<i>Ilex chinensis</i> Sims
Shi Jian Chuan	<i>Salvia chinensis</i> , <i>S. pogonocalyx</i> Hance, <i>S. przewalskii</i>
Shi Jiun Zi	<i>Quisqualis grandiflora</i> Miq., <i>Q. pubescens</i> Burm., <i>Q. longifolia</i> Presl., <i>Q. indica</i> L., <i>Q. sinensis</i> Lindl., <i>Q. loureiri</i> G. Don
Shi Juan Bai	<i>Selaginella involvens</i> (Sw.) Sprengel
Shi Li	<i>Aleurites moluccana</i> (L.) Willd.
Shi Liu Pi	<i>Punica granatum</i> L.
Shi Long Nei	<i>Ranunculus sceleratus</i> L.
Shi Luo	<i>Anethum graveoleus</i> L.
Shi Mu Zi	<i>Urtica laetevirens</i> Maxim.
Shi Nan Ye	<i>Photinia serrulata</i> Lindl.
Shi Shan	<i>Hyperzia serrata</i> (Thunb.) Trev.
Shi Shang Bai	<i>Selaginella doederleinii</i> Heironymus
Shi Sheng Yu	<i>Bistorta lapidosa</i> Kitag., <i>Polygonum lapidosum</i> Kitag.
Shi Song	<i>Lycopus lucidus</i> Turcz., <i>L. ramosissimus</i> (Makino) Makino var. <i>japonicus</i> (Matsum et Kudo) Kitam., <i>L. parviflorus</i> Maxim., <i>L. lucidus</i> Turcz. f. <i>hirtus</i> (Regel) Kitag., <i>L. maackianus</i> (Maxim.) Makino
Shi Suan	<i>Lycoris radiata</i> (L'Her.) Herb., <i>L. longituba</i> Y. Han et Fan., <i>L. aura</i> (L'Her.) Herb.
Shi Suan Hua	<i>Hippeastrum hybridum</i> Hortorum

Chinese Name	Scientific Name
Shi Wei	<i>Pyrrosia lingua</i> (Thunb.) Farwell, <i>P. shearereri</i> (Baker) Ching, <i>P. petiolosa</i>
Shi Wu Tou	<i>Centipeda minima</i> (L.) A. Braun. et Ascherison
Shi Zhu Yu	<i>Zanthoxylum ailanthoides</i> Sieb. et Zucc.
Shi Zi	<i>Diospyros lotus</i> L., <i>D. kaki</i> L., <i>D. roxburgii</i> Carr., <i>D. chinensis</i> Blume, <i>D. costata</i> Carr.
Shong Jie Fong	<i>Sarcandra glabra</i>
Shu Gi	<i>Ardisia sieboldii</i> Miq.
Shu Li	<i>Rhamnus davurica</i> Pall., <i>R. parvifolia</i> Bunge., <i>R. davurica</i> Pall. var. <i>nipponica</i> Makino
Shu Liang	<i>Dioscorea cirrhosa</i> , <i>D. japonica</i> Thunb., <i>D. hispida</i> Dennst.
Shu Long	<i>Pyrrosia adnascens</i> (Sw.) Ching
Shu Qu Cao	<i>Gnaphalium affine</i> L., <i>G. multiceps</i> Wall., <i>G. confusum</i> DC, <i>G. luteo-album</i> L. var. <i>multiceps</i> Hook, <i>G. arenarium</i> Thunb., <i>G. ramigerum</i> DC, <i>G. javanum</i> DC, <i>G. uliginosum</i> L., <i>G. tranzschelii</i> Kirpicznikov
Shu Shu	<i>Manihot esculenta</i> Crantz.
Shu Yu	<i>Dioscorea batatas</i> Decaisue
Shuang Mian Ci	<i>Zanthoxylum nitidum</i> (Roxb.) DC
Shui Cai	<i>Menyanthes trifoliata</i> L.
Shui Fei Ji	<i>Silybum marianum</i> (L.) Gaertn.
Shui Gui Jiao	<i>Hymenocallis speciosa</i> Salisbury
Shui Hong Cao	<i>Polygonum orientale</i> L.
Shui Huang Pi	<i>Pongamia pinnata</i> (L.) Pierre ex Merrill.
Shui Jin	<i>Oenothera javanica</i> (Bl) DC
Shui Ku Shi	<i>Veronica anagallis-aquatica</i> L., <i>V. anagallis-aquatica</i> L. f. <i>pumila</i> Kitag.
Shui Lian	<i>Nymphaea tetragona</i> Georgi, <i>N. tetragona</i> Georgi var. <i>crasifolia</i> (Hand. Mazz.) Y. C. Chu
Shui Man Chin	<i>Veronica linariaefolia</i> Pall. ex Link, <i>V. linariaefolia</i> Pall. ex Link subsp. <i>dilatata</i> (Nakai et Kitag.) Hong
Shui Shai	<i>Narcissus tazetta</i> L. var. <i>Chinensis</i> Roem.
Shui Shai Gen	<i>Narcissus tazetta</i> L. var. <i>Chinensis</i> Roem.
Shui Shai Gen	<i>Polyanthus narcissus</i>
Shui Su	<i>Stachys chinensis</i> Bunge. ex Benth., <i>S. japonica</i> Miq., <i>S. baicalensis</i> Fisch. ex Benth., <i>S. baicalensis</i> Fisch. ex Benth. var. <i>angustifolia</i> Honda
Shui Tuan Hua	<i>Adina ratemosa</i> (Sieb. et Zucc.) Miquel

Shui Xian Cao	<i>Hedyotis corymbosa</i> (L.) Lamarck.
Shui Yang Mei	<i>Geum aleppicum</i> Jacquin f. <i>glabricaule</i> (Juzepczuk) Kitag., <i>G. aleppicum</i> Jacquin
Shui Yang Mei Gen	<i>Adina rubella</i> Hance
Shui Yu	<i>Sorbus alnifolia</i> (Sieb. & Zucc.) K. Koch, <i>S. amurensis</i> Koehne, <i>S. alnifolia</i> (Sieb. & Zucc.) K. Koch var. <i>lobulata</i> Rehd., <i>S. pohuashanensis</i> (Hance) Hedl. var. <i>manshuriensis</i> (Kitag.) Y. C. Chu.
Shun	<i>Cunninghamia lanceolata</i> (Lamb.) Hooker
Si Gua	<i>Citrullus edulis</i> Spach., <i>C. anguria</i> Duch., <i>C. lanatus</i> Matsumura & Nakai, <i>C. vulgaris</i> Schrad.
Si Yang Bai Hua Cai	<i>Cleome spinosa</i> Jacquin
Si Yang Seng	<i>Panax quinquefolium</i> L.
Si Ye Huang Yang	<i>Buxus harlandii</i> Hance
Si Ye Lian	<i>Chloranthus oldhamii</i> Solms.
Si Ye Lu	<i>Galium bungei</i> Stead.
Si Zhao Hua	<i>Cornus kousa</i> Hance, <i>C. alba</i> L.
Siang Si Zi	<i>Abrus precatorius</i> L.
Sien Feng Cao	<i>Bidens pilosa</i> L. var. <i>minor</i> (Blume) Sherff.
Song Ji Shang	<i>Loranthus parasiticus</i> , <i>L. yadoriki</i> Sieb. et Zucc.
Song Lo	<i>Usnea longissima</i> Acharius
Song Ta	<i>Pinus bungeana</i> Zucc. ex Endl., <i>P. koraiensis</i> Sieb. et Zucc., <i>P. tabulaeformis</i> Carr., <i>P. densiflora</i> Sieb. et Zucc., <i>P. sylvestris</i> L. var. <i>mongolica</i> Litv., <i>P. sylvestris</i> L. var. <i>sylvestriformis</i> (Takenouchi) Cheng et C. D. Chu
Song Ye Mo	<i>Portulaca grandiflora</i> Hooker
Su Cao	<i>Polygala japonica</i> Houtt., <i>P. sibirica</i> L., <i>P. tatarinowii</i> Regel.
Su Mu	<i>Caesalpinia sappan</i> L.
Su Yang	<i>Cynomorium songaricum</i> L., <i>C. coccineum</i> L.
Suan Cheng	<i>Citrus aurantium</i> (Christm.) Swingle var. <i>amara</i>
Suan Mo	<i>Rumex acetosa</i> L., <i>R. marschallianus</i> Rehb., <i>R. acetosella</i> L., <i>R. aquaticus</i> L., <i>R. gmelini</i> Turcz., <i>R. longifolius</i> DC, <i>R. maritimus</i> L., <i>R. stenophyllus</i> Ledeb. var. <i>ussuriensis</i> (A. Los.) Kitag., <i>R. amurensis</i> Fr. Schm., <i>R. thyrsiflorus</i> Fingerh.
Suan Zao	<i>Ziziphus jujuba</i> Mill., <i>Z. spinosa</i>
Suan Zao Ren	<i>Z. jujuba</i> Mill.
Sui Me Chai	<i>Desmodium microphyllum</i> (Thunb.) DC

Chinese Name	Scientific Name
Sui Mi Jie	<i>Cardamine lyrata</i> Bunge., <i>C. leucantha</i> (Tausch.) O. E. Schulz.
Sun Cha	<i>Clerodendrum spicatus</i> (Thunb.) C. Y. Wu
Suo Lou Zi	<i>Aesculus chinensis</i> L., <i>A. hippocastanum</i> L.
Tai Huang	<i>Rheum officinale</i> Baill., <i>R. undulatum</i> L., <i>R. palmatum</i> L.
Tai Zi Shen	<i>Pseudostellaria heterophylla</i> (Miq.)
Tan Seng	<i>Salvia miltiorhiza</i> Bunge
Tan Xian	<i>Santalum album</i> L., <i>S. myrtifolium</i> Roxb., <i>S. verum</i> L.
Tang Jie	<i>Erysimum cheiranthoides</i> L., <i>E. amurense</i> Kitag. var. <i>bungei</i> (Kitag.) Kitag.
Tang Song Cao	<i>Thalictrum aquilegifolium</i> L. var. <i>sibiricum</i> Regel & Tiling, <i>T. fauriei</i> Hayata, <i>T. glandulissimum</i> , <i>T. petaloideum</i> L., <i>T. baicalense</i> Turcz., <i>T. petaloideum</i> L. var. <i>supradecompositum</i> (Nakai) Kitag., <i>T. squarrosus</i> Steph. ex Willd., <i>T. simplex</i> L. var. <i>brevipes</i> Hara, <i>T. simplex</i> L. var. <i>affine</i> (Ledeb.) Regel, <i>T. simplex</i> L., <i>T. thunbergii</i> DC, <i>T. baicalense</i> Turcz. f. <i>levicarpum</i> Tamura
Tang Song Cao (Taiwan)	<i>Thalictrum foetidum</i> L.
Ten Min Qing	<i>Carpesium abrotanoides</i> L., <i>C. thunbergianum</i> Sieb. et Zucc.
Teng Hu Tin Chi	<i>Elaeagnus glabra</i> Thunb.
Tian Bao Cao	<i>Hypericum sumpsonii</i> Hance
Tian Cai	<i>Artemisia lactiflora</i> Wallich
Tian Hua Fen	<i>Trichosanthes kirilowii</i> Maxim.
Tian Ja Cai	<i>Elephantopus scaber</i> L.
Tian Jiu	<i>Stevia rebaudiana</i> (Bertoni) Hemsl.
Tian Kui Zi	<i>Semiaquilegia adoxoides</i> (DC) Mak.
Tian Ma	<i>Gastrodia elata</i> Blume f. <i>pallens</i> (Kitaiig.) Tuyama, <i>G. elata</i> Blume
Tian Men Dong	<i>Asparagus cochinchinensis</i> (Lour.) Merr., <i>A. falcatus</i> Benth, <i>A. insularis</i> Hance, <i>A. lucidus</i> Lindl., <i>A. officinalis</i> L.
Tian Nan Xing	<i>Arisaema amurense</i> Maxim., <i>A. peninsulae</i> Y. C. Chu et D. C. Wu, <i>A. peninsulae</i> Nakai, <i>A. heterophyllum</i> Blume, <i>A. erubescens</i> (Wall.) Schott., <i>A. consanguineum</i> , <i>A. amurense</i> Maxim. f. <i>purpureum</i> (Nakai) Kitag., <i>A. amurense</i> Maxim. f. <i>serratum</i> (Nakai) Kitag., <i>A. thunbergii</i> Blume, <i>A. amurense</i> Maxim. f. <i>violaceum</i> (Engler) Kitag.
Tian Peng Cao	<i>Stellaria alsine</i> Grimm var. <i>undulata</i> (Thunb.) Ohwi
Tian Qi	<i>Panax notoginseng</i> (Burk) F. H. Chen
Tian Qing	<i>Sesbinia javanica</i> (L.) Persoon

Tian Xuan Hua	<i>Convolvulus arvensis</i> L.
Tian We Cao	<i>Spilanthes acmella</i> (L.) Murray
Tian Zhu Cao	<i>Scoparia dulcis</i> L.
Tie Dao Mu	<i>Cassia siamea</i> Lamark
Tie Shu	<i>Cycas revoluta</i> Thunb.
Tie Xian Cai	<i>Acacia australis</i>
Tie Xian Cao	<i>Cynodon dactylon</i> (L.) Persoon
Tie Xian Jiu	<i>Adiantum boreale</i> Presl., <i>A. pedatum</i> L., <i>A. capillus-junonis</i> Rupr.
Tie Xian Lian	<i>Clematis intricata</i> Bunge., <i>C. mandshurica</i> Rupr.
Ting Li Zi	<i>Draba nemorosa</i> L.
Tong Guan Teng	<i>Marsdenia tenacissima</i>
Tou Gu Cao	<i>Impatiens balsamina</i> L., <i>I. noli-tangere</i> L., <i>I. textori</i> Miq.
Tou Ren	<i>Prunus persica</i> (L.) Batsch.
Tu Er Cao	<i>Blumea hieraciifolia</i> (D. Don) DC
Tu Fang Ji	<i>Paracyclea insularis</i> Kudo et Yamamoto
Tu Fang Ji (Taiwan)	<i>Paracyclea ochiaiana</i> Kudo et Yamamoto
Tu Gu Ling	<i>Smilax china</i> L., <i>S. riparia</i> DC subsp. <i>ussuriensi</i> (Regel) Kitag., <i>S. sieboldii</i> Miq., <i>S. nipponica</i> Miq. subsp. <i>manshurica</i> Kitag.
Tu Hung Hua	<i>Callicarpa formosana</i> Rolfe.
Tu Niu Teng	<i>Achyranthes asperia</i> L. var. <i>indica</i> L.
Tu Ren Shen	<i>Taliumn triangulare</i> Willd.
Tu Si Zi	<i>Cuscuta chinensis</i> Lam., <i>C. lupuliformis</i> Krocke, <i>C. japonica</i> Choisy, <i>C. europaea</i> L.
Tu Soon	<i>Juniperus rigida</i> Sieb. et Zucc., <i>J. rigida</i> Sieb. et Zucc. f. <i>modesta</i> (Nakai) Y. C. Chu
Tu Tai Huang	<i>Rumex patientia</i> L. var. <i>callosus</i> Fr. Schm.
Tu Wei Cao	<i>Uraria lagopodioides</i> (L.) Dexvaux
Tu Xian	<i>Ledum palustre</i> L. subsp. <i>decumbens</i> (Aiton) Hulten
Wan Shou Jiu	<i>Tagetes patula</i> L.
Wang Bu Liu Xing	<i>Saponaria officinalis</i> L., <i>S. vaccaria</i> L., <i>Vaccaria segetalis</i> (Neck.) Garcke
Wang Jiang Nan	<i>Cassia tora</i> L., <i>C. occidentalis</i> L.

Chinese Name	Scientific Name
Wei Ling Cai	<i>Potentilla bifurca</i> L. var. <i>canescens</i> Bong. et Mey., <i>P. bifurca</i> L. var. <i>glabrata</i> Lehm., <i>P. kleiniana</i> Wight & Arnott var. <i>robusta</i> (Franch. & Savat.) Kitag., <i>P. fragariodes</i> L. var. <i>major</i> Maxim., <i>P. discolor</i> Bunge., <i>P. fragariodes</i> L., <i>P. freyaiana</i> Bornmuller, <i>P. chinensis</i> Seringe
Wei Ling Xian	<i>Clematis florida</i> Thunb., <i>C. sinensis</i> Lour., <i>C. hexapetala</i> Pall. f. <i>longiloba</i> (Freyn) S. H. Li et Y. H. Huang, <i>C. minor</i> Lour., <i>C. terniflora</i> DC, <i>C. chinensis</i> Retz., <i>C. hexapetala</i> Pall.
Wei Mao	<i>Evonymus alatus</i> Regel <i>E. alatus</i> (Thunb.) Sieb., <i>E. maackii</i> Rupr., <i>E. bungeanus</i> Maxim., <i>E. alatus</i> Regel, <i>E. alatus</i> (Thunb.) Sieb. var. <i>apterus</i> Regel, <i>E. thunbergianus</i> Blume, <i>E. subtriflorus</i> Blume, <i>Celastrus alatus</i> Thunb., <i>C. striatus</i> Thunb.
Wei Sui Xian	<i>Amaranthus caudatus</i> L.
Wei Yan Xian	<i>Caulophyllum robustum</i> Maxim.
Wo Seng	<i>Anthriscus aemula</i> (Woron.) Schischk., <i>A. aemula</i> (Woron.) Schischk. f. <i>hirtifructa</i> (Ohwi) Kitag.
Wo Zu	<i>Curcuma zedoaria</i> (Christ.) Roscoe
Won Nian Qing	<i>Rhodea japonica</i>
Wu An	<i>Coriandrum sativum</i> L.
Wu Bei Zi	<i>Rhus chinensis</i> Mill., <i>R. cotinus</i> L., <i>R. javanica</i> L., <i>R. osbeckii</i> Decne.
Wu Fan Shu	<i>Vaccinium bracteatum</i> Thunb., <i>V. vitis-idaea</i> L.
Wu Gan	<i>Iris lactea</i> Pall. subsp. <i>chinensis</i> (Fisch.) Kitag.
Wu Gong	<i>Scolopendrium subspinipes</i> , <i>Phyllitis scolopendrium</i> (L.) Newm., <i>P. scolopendrium</i> (L.) Newm.
Wu Hua Go	<i>Ficus carica</i> L.
Wu Huan Shu	<i>Sapindus mukorossi</i> Gaertner
Wu Jia Pi	<i>Acanthopanax gracilistylus</i> , <i>A. spinosum</i> Miq.
Wu Jiu	<i>Sapium sebiferum</i> (L.) Roxb.
Wu Ju	<i>Sphenomeris chusana</i> (L.) Copel.
Wu Ma	<i>Sessamum indicum</i> L.
Wu Mai	<i>Prunus mume</i> (Sieb.) Sieb. et Zucc.
Wu Ru Ba	<i>Trigonella foenum-graecum</i> L.
Wu Song Ju	<i>Pueraria vittata</i> L.

Wu Tao	<i>Aconitum balfourii</i> Stapf., <i>A. koreanum</i> R. Raymund, <i>A. volubile</i> Pall. ex Koelle var. <i>oligotrichum</i> Kitag., <i>A. carmichaelii</i> Debeaux, <i>A. praeparata</i> , <i>A. jaluense</i> Kom. F. glabrescens (Nakai) Kitag., <i>A. fischeri</i> Reichb., <i>A. deinorrhizum</i> Stapf., <i>A. chasmanthum</i> Stapf., <i>A. napellus</i> L.
Wu Tong	<i>Firmiana simplex</i> (L.) W. F. Wight
Wu Wei Zi	<i>Schisandra chinensis</i> (Turcz.) Baill.
Wu Wei Zi (Taiwan)	<i>S. arisanensis</i> Hayata
Wu Yao	<i>Daphnidium myrrha</i> Sieb. et Zucc., <i>D. strychnifolius</i> Sieb. et Zucc., <i>Lindera strychnifolia</i> Vill.
Wu Zhao Jin Long	<i>Ipomoea cairica</i> (L.) Sweet
Wu Zhu Yu	<i>Evodia rutaecarpa</i> (Juss.) Berth
Xi Sheng Teng	<i>Cissampelos pareira</i> L.
Xi Shin	<i>Hepatica asiatica</i> Nakai
Xi Shu	<i>Camptotheca acuminata</i> Decne.
Xi Xin	<i>Asarum canadense</i> L., <i>A. terotripoides</i> Fr. Schmidt var. <i>mandshuricum</i> (Maxim.) Kitag., <i>A. sieboldii</i> Miq., <i>A. heterotripoides</i> Fr. Schmidt var. <i>seouleuse</i> (Nakai) Kitag.
Xi Ye Sha Seng	<i>Wahlenbergia marginata</i> (Thunb.) A. DC
Xi Ye Zhu Chi Cao	<i>Phyllanthus virgatus</i> Forster
Xia Ku Chao	<i>Prunella vulgaris</i> L.
Xia Tian Wu	<i>Corydalis decumbens</i> (Thunb.) Pers.
Xian	<i>Armeniaca ansu</i> (Maxim.) Kostina, <i>A. mandshurica</i> (Maxim.) Skvortzov, <i>A. sibirica</i> (L.) Lam., <i>A. vulgaris</i> Lam.
Xian He Cao	<i>Agrimonia eupatoria</i> L., <i>A. pilosa</i> Ledeb., <i>A. pilosa</i> Ledeb. var. <i>japonica</i> (Miq.) Nakai, <i>A. pilosa</i> Ledeb. var. <i>viscidula</i> (Bunge.) Kom., <i>A. viscidula</i> Bunge.
Xian Mao	<i>Curculigo stans</i> Labill., <i>C. ensifolia</i> R. Br., <i>C. malabarica</i> Labill., <i>C. orchiodes</i> gaertn., <i>Cymbopogon nardus</i> Rendle
Xian Xia Hua	<i>Vernonia patula</i> (Ait.) Merr.
Xian Ye Shu	<i>Lindera communis</i> Hemsley
Xiang Fu	<i>Cyperus rotundus</i> L.
Xiang Jiao	<i>Musa paradisiaca</i> L. var. <i>sapientum</i> O. Ktze.
Xiang Si Shu	<i>Acacia confusa</i> Merrili
Xiang Tian Huang	<i>Cleome viscosa</i> L.
Xiang Xu	<i>Elsholtzia souliei</i> Lev., <i>E. feddei</i> Lev., <i>E. cristata</i> Willd., <i>E. argyi</i> Lev., <i>Hyssopus ocyimifolius</i> Lam., <i>Perilla frutescens</i> (L.) Britt., <i>P. polystachya</i> D. Don (Syn. <i>Elsholtzia cristata</i>), <i>P. ocyimoides</i> L. var. <i>crispa</i> Benth., <i>P. ocyimoides</i> L.

Chinese Name	Scientific Name
Xiao Fei Yang Cao	<i>Euphorbia thymifolia</i> L.
Xiao Hui Xiang	<i>Foeniculum vulgare</i> Mill., <i>F. officinale</i> All.
Xiao Ji	<i>Cirsium japonicum</i> DC, <i>C. setosum</i> (Willd.) Bieb., <i>C. littorale</i> Max., <i>C. albescens</i> Kitamura, <i>C. segetum</i> Bunge., <i>C. vlassovianum</i> Fisch. ex DC, <i>C. maakii</i> Max., <i>C. brevicaule</i> A. Grey, <i>Carduus acaulis</i> Thunb., <i>C. japonicus</i> Franch., <i>C. crispus</i> L., <i>Cephalanoplos segetum</i>
Xiao Shan Ju	<i>Glycosmis cochinchinensis</i> Pierre
Xiao Ye Yang Jiao Teng	<i>Morinda parvifolia</i> Bartling
Xiao Yeh	<i>Berberis amurensis</i> Rupr., <i>B. sibirica</i> Pall., <i>B. poiretii</i> Schneid, <i>B. soulieana</i> C. K. Schneid
Xiao Ying Qie	<i>Solanum aculeatissimum</i> Jacquin
Xin Yi	<i>Magnolia biloba</i> Cheng, <i>M. discolor</i> Vent., <i>M. denudata</i> Desr., <i>M. purpurea</i> Curt.
Xing Ren	<i>Prunus armeniaca</i> L.
Xiu Qiu	<i>Hydrangea macrophylla</i> (Thunb.) Seringe
Xiu Xian Jiu	<i>Spiraea salicifolia</i> L., <i>S. salicifolia</i> L. var. <i>grosseserrata</i> Liou & Liou fil., <i>S. salicifolia</i> L. var. <i>oligodonta</i> Yu
Xu Chang Qing	<i>Cynanchum paniculatum</i> L.
Xu Duan	<i>Dipsacus asper</i> Wall.
Xu Sui Zi	<i>Euphorbia lathyris</i> L., <i>E. lucorum</i> Rupr.
Xuan Fu Hua	<i>Inula britannica</i> L., <i>I. japonica</i> Thunb., <i>I. salsoloides</i> (Turcz.) Ostenfeld, <i>I. linariaefolia</i> Turcz., <i>I. linariaefolia</i> Turcz. f. <i>simplex</i> Kom.
Xuan Mu Gua	<i>Chaenomeles speciosa</i> (Sweet) Nakai, <i>C. sinensis</i> Koch., <i>Cydonia sinensis</i> Thou.
Xuan Seng	<i>Scrophularia buergeriana</i> Miq., <i>S. puergeriana</i> Miq., <i>S. kakudensis</i> Franch var. <i>latisepala</i> (Kitag.) Kitag., <i>S. oldhami</i> Oliv., <i>S. ningpoensis</i> Hemsl.
Xue Jian Chou	<i>Aquilegia buergeriana</i> Sieb. et Zucc. f. <i>pallidiflora</i> (Nakai) Kitab., <i>A. parviflora</i> Ledeb., <i>A. buergeriana</i> Sieb. et Zucc. var. <i>oxysepala</i> (Trautv. Et Mey.) Kitam.
Xue Jie	<i>Daemonorops draco</i> Blume.
Xue Shang Yi Zhi Hao	<i>Aconitum barbatum</i> Persoon
Ya Dan Zi	<i>Brucea javanica</i> (L.) Merrill, <i>B. sumatrana</i> Roxb.
Ya Er Qin	<i>Cryptotaenia canadensis</i> (L.) DC
Ya Ma	<i>Linum stelleroides</i> Planch., <i>L. usitatissimum</i> L., <i>Commelina communis</i> L.
Yan Cao	<i>Nicotiana tabacum</i> L.

Yan Hu Suo	<i>Corydalis yanhusuo</i> W. T. Wang ex Z. Y. Su et C. Y. Wu, <i>C. turtshaninovii</i> Besser Bess. f. <i>yanhusa</i> , <i>C. incisa</i> (Thunb.) Pers., <i>C. repens</i> Mandl. et Muehld. var. <i>watnabei</i> (Kitag.) Y. C. Chu, <i>C. ambigua</i> Cham. et Schlecht. var. <i>amurensis</i> Maxim.
Yan Jie Cao	<i>Ophiopogon japonicus</i> Wall.
Yang Gan Jiu	<i>Matricaria chamomilla</i> L.
Yang Guo Nau	<i>Strophanthus divaricatus</i> (Lour.) Hook & Arn.
Yang Lu	<i>Codonopsis lanceolata</i> (Sieb. et Zucc.) Trautv.
Yang Lu Kui	<i>Anredera cordifolia</i> (Tenore) Van Steen
Yang Ti Gen	<i>Rumex crispus</i> L., <i>R. japonicus</i>
Yang Yu Lan	<i>Magnolia grandiflora</i> L.
Yang Zhi Zu	<i>Rhododendron sinensis</i> Sw., <i>Azalea japonica</i> A. Gray, <i>A. pontica</i> var. <i>sinensis</i> Lindl., <i>A. mollis</i> Blume
Yao Jiu Hua	<i>Chrysanthemum procumbens</i> Lour., <i>C. indicum</i> L., <i>C. lavandulaefolium</i> , <i>C. tripartitum</i> Sw.
Ye Bai He	<i>Crotalaria sessiliflora</i> L.
Ye Da Dou	<i>Glycine soja</i> Sieb. & Zucc.
Ye Dou Gen	<i>Menispermum dauricum</i> L.
Ye Gan Zi	<i>Phyllanthus emblica</i> L.
Ye Guan Men	<i>Lespedeza cuneata</i> G. Don
Ye He Hua	<i>Magnolia coco</i> (Lour.) DC
Ye Lu Kui	<i>Melochia corchorifolia</i> L.
Ye Mu Gua	<i>Stauntonia hexaphylla</i> Dence
Ye Wo	<i>Carum carvi</i> L.
Ye Wu Tong	<i>Mallotus japonicus</i> (Thunb.) Muell.
Ye Yen Me	<i>Avena fatua</i> L.
Yen Lin Cao	<i>Trillium camschatcense</i> Ker-Gawler
Yen Xing	<i>Ginkgo biloba</i> L.
Yeu Je Hua	<i>Rosa chinensis</i> Jacq., <i>R. indica</i> Lindl.
Yi Dian Hong	<i>Nervilia purpurea</i> (Hayata) Schltr.
Yi Mu Cao	<i>Leonurus heterophyllus</i> , <i>L. japonicus</i> Houttuyn., <i>L. macranthus</i> Maxim., <i>L. mongolicus</i> V. Kreczet. et Kupr., <i>L. pseudo-macranthus</i> Kitag.
Yi Nian Pon	<i>Erigeron annuus</i> (L.) Persoon

Chinese Name	Scientific Name
Yi Wu	<i>Elaeagnus oldhumii</i> Maixmowicz
Yi Ye Chan	<i>Securinega suffruticosa</i> (Pall.) Rehd.
Yi Yi	<i>Coix chinensis</i> Tod, <i>C. agrestis</i> Lour., <i>C. lachryma</i> L., <i>C. lachryma-jobi</i> L. var. <i>ma-yuen</i> (Roman) Stapf
Yi Zhi	<i>Alpinia oxyphylla</i> Miq.
Yi Zhi Huang Hua	<i>Solidago dahurica</i> (Kitag.) Kitag., <i>S. virgaurea</i> L., <i>S. pacifica</i> Juzepczuk.
Yi Zhi Huang Hua (N. Am.)	<i>S. canadensis</i> L.
Yi Zhi Jian	<i>Ophioglossum vulgatum</i> L.
Yi Zhi Zi	<i>Elettaria cardamomum</i> Maton.
Yie Huang Hua	<i>Patrina scabiosaefolia</i> Fisch. ex Link.
Yie Mian Hua	<i>Anemone vitifolia</i> (Buch. Ham.) Nakai
Yie Pu Tao Teng	<i>Ampelopsis brevipedunculata</i> (Maxim.) Trautv.
Yie Xiz Zhu	<i>Phyllanthus urinaria</i> L.
Yin Bai Yang	<i>Populus alba</i> L., <i>P. davidiana</i> Dode, <i>P. tomentosa</i> Carr.
Yin Cao	<i>Primula sieboldii</i> E. Morren var. <i>patens</i> (Turcz.) Kitag., <i>P. asiatica</i> Nakai f. <i>albiflora</i> (Koidz.) Kitag., <i>P. asiatica</i> Nakai f. <i>lilacina</i> (Nakai) Kitag., <i>P. vulgaris</i> L., <i>P. asiatica</i> Nakai
Yin Chen	<i>Artemisia capillaris</i> Thunb.
Yin He Huan	<i>Leucaena leucocephala</i> (Lam.) De Wit
Yin Lian Hua	<i>Anemone raddeana</i> Regel
Ying Chun Hua	<i>Jasminum mesnyi</i> Hance, <i>J. nudiflorum</i> Lindley
Ying Su	<i>Papaver amurense</i> (N. Busch) N. Busch ex Tolmatchev., <i>P. nudicaule</i> L., <i>P. radicatum</i> Rottb. var. <i>pseudoradicatum</i> (Kitag.) Kitag.
You Tong	<i>Aleurites fordii</i> Hemsl.
Yu Bai	<i>Lycopus obscurum</i> L.
Yu Bai Pi	<i>Ulmus campestris</i> L.
Yu Dei Mei	<i>Hoya carnosa</i> (L. F.) R. Brown
Yu Jin	<i>Curcuma aromatica</i> , <i>C. longa</i> L.
Yu Jin Xian	<i>Tulipa gesneriana</i> L.
Yu Lee Ren	<i>Prunus domestica</i> L., <i>P. glandulosa</i> Thunb., <i>P. japonic</i> Thunb.

Yu Ma	<i>Urtica angustifolia</i> Fisch. ex Hornem., <i>U. urens</i> L., <i>U. cannabina</i> L. f. <i>angustiloba</i> Chu, <i>U. lobata</i> L., <i>U. tenacissima</i> Roxb., <i>U. utilis</i> Hort., <i>U. cannabina</i> L., <i>Boehmeria nivea</i> Gaudich.
Yu Ma Gen	<i>Boehmeria tenacissima</i> Gaudich
Yu Mei Ku	<i>Papaver somniferum</i> L.
Yu Mi Xu	<i>Zea mays</i> L.
Yu Shan Dou	<i>Lupinus luteus</i> L.
Yu Shan Shi Song	<i>Lycopus veitchii</i> Christ.
Yu Xing Cao	<i>Houttynia cordata</i> Thunb.
Yu Ye Jin Hua	<i>Mussaenda parviflora</i> Miq.
Yuan Bai	<i>Sabina chinensis</i> (L.) Antoine
Yuan Hua	<i>Daphne fortunei</i> Lindl., <i>D. genkwa</i> Sieb. et Zucc.
Yuan Jin Gan	<i>Fortunella japonica</i> (Thunb.) Swin.
Yuan Xi Huang San	<i>Allamanda cathartica</i> L.
Yuan Zhi	<i>Polygala tenuifolia</i> Willd.
Yue Tao	<i>Alpinia japonica</i> Miq.
Yun Shi	<i>Caesalpinia decapetula</i> (Roth.) Alston
Yun Xian Cao	<i>Cymbopogon goeringii</i> (Steud.) A. Camus, <i>C. distans</i> (Nees ex Steud.) J. F. Watson
Zao Ci	<i>Gleditschia sinensis</i> Lam, <i>G. xylocarpa</i> Hance, <i>G. horrida</i> Willd.
Zao Zhu	<i>Arenaria juncea</i> Bieb., <i>A. juncea</i> Bieb. var. <i>abbreviata</i> Kitag., <i>A. juncea</i> Bieb. var. <i>glabra</i> Regel, <i>A. serpyllifolia</i> L.
Ze Lan	<i>Arethusa japonica</i> A. Gr.
Ze Qi	<i>Euphorbia esula</i> L.
Ze Xie	<i>Alisma cordifolia</i> Thunb., <i>A. plantago</i> L., <i>A. plantago-aquatica</i> L., <i>A. orientalis</i> (Sam.) Juzep.
Zhang Shu	<i>Atractylis chinensis</i> DC, <i>A. ovata</i> Thunb., <i>A. lyrata</i> Sieb. et Zucc., <i>A. lancea</i> Thunb.
Zhe Gu Cai	<i>Calloglossa lepieurii</i> (Mont.) J. Ag.
Zhen	<i>Corylus mandshurica</i> Maxim. ex Rupr. f. <i>brevituba</i> (Kom.) Kitag., <i>C. heterophylla</i> Fisch. ex Besser, <i>C. mandshurica</i> Maxim. ex Rupr.
Zhi	<i>Gardenia maruba</i> Sieb., <i>G. florida</i> L., <i>G. grandiflora</i> Sieb. et Zucc., <i>G. jasminoides</i> Ellis, <i>G. pictorum</i> Hassk., <i>G. radicans</i> Thunb.
Zhi Bei Zi	<i>Hovenia dulcis</i> Thunb.
Zhi Jia Hua	<i>Lawsonia inermis</i> L.

Chinese Name	Scientific Name
Zhi Jin Niu	<i>Ardisia quinqueгона</i> (Blume) Nakai
Zhi Mu	<i>Anemarrhena asphodeloides</i> Bunge.
Zhi Wen	<i>Aster tataricus</i> L.
Zhou Sho	<i>Paris polyphylla</i> Smith, <i>P. quadrifolia</i> L.
Zhu Cao	<i>Lithospermum erythrorhizon</i> Sieb. et Zucc.
Zhu Chun Hua	<i>Salvia coccinea</i> L.
Zhu Je Seng	<i>Panax japonicum</i> C. A. Meyer
Zhu Jin	<i>Hibiscus rosa-sinensis</i> L.
Zhu Ling	<i>Polyporus umbellatus</i>
Zhu Long Cao	<i>Nepenthes raffsiana</i> Masilus
Zhu Mao Chao	<i>Salsola collina</i>
Zhu Shan	<i>Taxus cuspidata</i> Sieb. et Zucc.
Zhu Shi Tou	<i>Crotalaria mucronata</i> Desv.
Zhu Wei	<i>Campsis adrepens</i> Lour., <i>C. grandiflora</i> (Thunb.) Loiseleur, <i>C. chinensis</i> Voss.
Zhu Wei	<i>Bignonia grandiflora</i> Thunb.
Zhu Ye Lan	<i>Arundina graminifolia</i> (D. Don) Hochrentiner
Zhu Yin Yin	<i>Galium spurium</i> L.
Zhu Zi Cao	<i>Phyllanthus niruri</i> Li, <i>P. reticulatus</i> Poir.
Zi Bei Cao	<i>Emilia sonchifolia</i> (L.) DC
Zi Cao	<i>Arnebia euchroma</i>
Zi Duan	<i>Tilia amurensis</i> Rupr., <i>T. mongolica</i> Maxim., <i>T. mandshurica</i> Rupr. & Maxim.
Zi Jin Pi	<i>Tripterygium hypoglaucum</i>
Zi Kee Guan Zhong	<i>Osmunda japonica</i> L.
Zi Lan	<i>Eupatorium chinense</i> L. var. <i>simplicifolium</i> (Malcino) Kitam., <i>E. lindleyanum</i> DC
Zi Su	<i>Perilla arguta</i> Benth.
Zi Teng	<i>Wisteria sinensis</i> (Sims) Sweet
Zi Wei Hua	<i>Bignonia grandiflora</i> Thunb., <i>B. chinensis</i> Lam., <i>Campsis chinensis</i> Voss.

Zi Yu	<i>Sanguisorba officinalis</i> L., <i>S. grandiflora</i> (Maxim.) Makino, <i>S. officinalis</i> L. var. <i>longa</i> Kitag., <i>S. officinalis</i> L. var. <i>longa</i> Kitag. f. <i>dilutiflora</i> Kitag., <i>S. parviflora</i> (Maxim.) Takeda, <i>S. officinalis</i> L., <i>S. officinalis</i> L. f. <i>latifoliata</i> (Liou et C. Y. Li) Y. C. Chu, <i>S. x tenuifolia</i> Fisch. ex Link
Zi Zhu Cao	<i>Callicarpa macrophylla</i> L.
Ziang Jia Pi	<i>Periploca sepium</i> Berge.
Zong Lu	<i>Trachycarpus wagnerianus</i> Beccari
Zong Shi	<i>Lappa communis</i> Coss et Germ., <i>L. minor</i> DC, <i>L. major</i> Gaerth., <i>L. edulis</i> Sieb.
Zu Si Ma	<i>Daphne giraldii</i> Nitsche, <i>D. gurakduu</i> Nitsche, <i>D. retusa</i> Hemsl., <i>D. tangutica</i> Maxim.
Zuo Yie He Cao	<i>Cotyledon malaacophylla</i> Pall., <i>C. fimbriatum</i> Turcz.

APPENDIX 2

Major Chemical Components and Their Sources in Chinese Medicinal Herbs

Component	Source
(+)-5,17-dehydromatine N-oxide	<i>Euchresta japonicum</i>
(-)-12-cytisineacetic acid	<i>Euchresta japonicum</i>
1,8-cineol	<i>Glechoma hederacea</i> , <i>G. longituba</i> , <i>Hedychium coronarium</i> , <i>Lysimachia barystachys</i> , <i>L. christinae</i> , <i>L. clethroides</i> , <i>L. davurica</i> , <i>Thymus vulgaris</i>
1-acetyl-4-isopropylidenecyclopentene	<i>Cinnamomum camphora</i>
10-deacetylbaecatin	<i>Taxus cuspidata</i> , <i>T. chinensis</i> , <i>T. yunnanensis</i>
10-hydroxycamptothecin	<i>Camptotheca acuminata</i>
12-benzoydaphnetoxin	<i>Daphne fortunei</i> , <i>D. genkwa</i>
2'-deoxyadenosine	<i>Cordyceps sinensis</i>
2-hydroxyphenylacetic acid	<i>Astilbe longicarpa</i> , <i>A. chinensis</i>
2-methyl-1,2,3,4-tetrahydro- β -carboline	<i>Elaeagnus pungens</i> , <i>E. umbellata</i>
2-o-caffeoylarbutin	<i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>
22E-dehydroclerosterol	<i>Clerodendrum fragrans</i>
2,4-dichloro-6-aminopyridine	<i>Picrasma quassioides</i>
2,4,4',t-tetrahydroxybenzophenone	<i>Morus alba</i> , <i>M. constantinopolitana</i> , <i>M. indica</i>
24alpha-epimer stigmaterol	<i>Clerodendrum paniculatum</i>
24alpha-ethyl-5alpha-cholest	<i>Clerodendrum fragrans</i>
24beta-epimer poriferasterol	<i>Clerodendrum paniculatum</i>
24beta-methylcholesta	<i>Clerodendrum fragrans</i>
25-D-spirosta-3,5-diene	<i>Dioscorea nipponica</i>
2,6-dimethoxy-p-benzo-quinone	<i>Picrasma quassioides</i>
2,6-nonadienol	<i>Cucumis sativus</i>
3".4"-O-diacetylfazelin	<i>Zingiber zerumbet</i>
3'-angeloyloxy-4'-isovaleroyloxy	<i>Angelica decursiva</i>
3-(4-hydroxyphenyl)-2 (E)-propenoate	<i>Costus speciosus</i> , <i>Curcuma zedoaria</i> , <i>C. aromatica</i> , <i>C. kwangsiensis</i>
3-chloroplumbagin	<i>Plumbago zeylanica</i>
3-hydroxy-30-horoleana-12,18-dien-29-oate	<i>Anredera cordifolia</i>
3-indolylmethylgluco-sinolate	<i>Clerodendrum cyrtophyllum</i>
3-methoxypyridine	<i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i>

3-O- β -glucosylplatycodigenin	<i>Platycodon autumnalis</i> , <i>P. grandiflorum</i> , <i>P. sinensis</i>
3-O-demethylhernandifoline	<i>Stephania hernendifolia</i>
3-O-methylquercetin	<i>Ophioglossum vulgatum</i>
3-oxykojic acid	<i>Maytenus diversifolia</i> , <i>M. confertiflorus</i>
3-p-coumarylglycoside-5-glucoside	<i>Perilla frutescens</i> , <i>P. ocymoides</i> , <i>P. polystachya</i> , <i>P. arguta</i>
3,4-dihydroxyacetophenone	<i>Ilex pubescens</i>
3,4-dihydroxycinnamic acid	<i>Ananas comosus</i>
3,4-dihydroxyphenethyl alcohol	<i>Syringa dilatata</i> , <i>S. oblata</i> , <i>S. reticulata</i> , <i>S. suspensa</i> , <i>S. vulgaris</i>
4-dementhyl-hasubanonine	<i>Stephania hernendifolia</i>
4-hydroxycinnamic acid	<i>Ananas comosus</i> , <i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i>
4-methoxysalicylaldehyde	<i>Acanthopanax gracilistylus</i> , <i>A. spinosum</i>
4-quinazalone	<i>Dichroa cyanitis</i> , <i>D. febrifuga</i> , <i>D. latifolia</i>
4,5-dimethoxycanthin-6-one	<i>Picrasma quassioides</i>
5 α -ergost-8(-14)-en-3 β -ol	<i>Ophiorrhiza japonica</i> , <i>O. mungos</i>
5 α -ergost-en-3 β -ol	<i>Ophiorrhiza japonica</i> , <i>O. mungos</i>
5- β -cholanolic acid	<i>Abrus precatorius</i>
5-fluorouracil	<i>Rabdosia lasiocarpus</i>
5-guaizulene	<i>Murraya paniculata</i>
5-hydroxytryptamine	<i>Ranunculus sceleratus</i> , <i>Urtica angustifolia</i> , <i>U. cannabina</i> , <i>U. cannabina</i> , <i>U. lobata</i> , <i>U. tenacissima</i> , <i>U. urens</i> , <i>U. utilis</i>
5-methyl kaempferol	<i>Rhododendron mucronatum</i>
5-methyl myricetin	<i>Rhododendron mucronatum</i>
5-stigmautena-3 β ,7 α -diol	<i>Ananas comosus</i>
6,9,12-octadecatrienoic acid	<i>Oenothera biennis</i> , <i>O. odorata</i>
6-C-galactopyranosyl-isoscutellarein	<i>Silene jensenseensis</i>
6-ethoxy-chelerythrin	<i>Zanthoxylum nitidum</i>
6-isoinosine	<i>Acanthopanax giraldii</i>
6-methylcodine	<i>Papaver somniferum</i>
6-O- β -sophoruside	<i>Bougainvillea brasiliensis</i> , <i>B. glabra</i>
6-O-acetyl-arbutin	<i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>

Component	Source
6-O-rhamnosyl cophoroside	<i>Bougainvillea brasiliensis</i> , <i>B. glabra</i>
6,6'-dimethoxylgossypol	<i>Gossypium herbaceum</i>
6,8-di-C-galactopyranosylapigenin	<i>Silene jenseensis</i>
7-β-glucopyranoside	<i>Veronica sibirica</i> , <i>V. undulata</i>
7-caFFEyl-glucosides	<i>Perilla frutescens</i> , <i>P. ocymoides</i> , <i>P. polystachya</i> , <i>P. arguta</i>
7-hydroxylathyrol	<i>Euphorbia lathyris</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i>
7-methoxy-2,2-dimethylchromene	<i>Ageratum conyzoides</i> , <i>A. houstonianum</i>
7-methoxy-baicalin	<i>Scutellaria baicalensis</i> , <i>S. grandiflora</i> , <i>S. lanceolaria</i> , <i>S. macrantha</i> , <i>S. rivulararis</i> , <i>S. viscidula</i>
7-methoxynorwogonin	<i>Scutellaria baicalensis</i> , <i>S. grandiflora</i> , <i>S. lanceolaria</i> , <i>S. macrantha</i> , <i>S. rivulararis</i> , <i>S. viscidula</i>
7-O-methyl-morroniside	<i>Cornus officinalis</i>
8-(O-methyl-p-coumaroyl)-harpagide	<i>Scrophularia buergeriana</i> , <i>S. kakudensis</i> , <i>S. ningpoensis</i> , <i>S. oldhami</i> , <i>S. puergeriana</i>
Abamagenin	<i>Sansevieria trifasciata</i>
Abeotaxanes	<i>Taxus cuspidata</i> , <i>T. chinensis</i> , <i>T. yunnanensis</i>
Abscisic acid	<i>Pileostegia viburnoides</i>
Acacetin-7-glucoside	<i>Chrysanthemum jucundum</i> , <i>C. koraiense</i> , <i>C. morifolium</i> , <i>C. sinense</i>
Acacetin-7-glucurono-(1,2)-glucuronide	<i>Clerodendrum trichotomum</i> , <i>C. spicatus</i>
Acacetin-7-rhamnoglucoside	<i>Chrysanthemum jucundum</i> , <i>C. koraiense</i> , <i>C. morifolium</i> , <i>C. sinense</i> , <i>Cirsium albescens</i> , <i>C. brevicaulis</i> , <i>C. littorale</i> , <i>C. maakii</i> , <i>C. setatum</i> , <i>C. setosum</i> , <i>C. vlassovianum</i>
Acalyphine	<i>Acalypha australis</i> , <i>A. farnesiana</i> , <i>A. indica</i>
Acanthosides	<i>Acanthopanax sessiliflorum</i>
Acetadehyde	<i>Prunus persica</i>
Acetic acid	<i>Ajuga bracteosa</i> , <i>Jasminum sambra</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Michelia alba</i> , <i>M. figo</i> , <i>Prunus persica</i>
Acetone	<i>Coriandrum sativum</i>
Acetovanillone	<i>Gossypium herbaceum</i>
Acetycophalotaxine	<i>Cephalotaxus wilsoniana</i>
Acetyl lupeol	<i>Plumeria rubra</i>
Acetyl oleanolic acid	<i>Syzygium cumini</i>
Acetylcholine	<i>Diospyros chinensis</i> , <i>D. costata</i> , <i>D. khaki</i> , <i>D. lotus</i> , <i>D. roxburgii</i> , <i>Viscum album</i>

Acetylcorynoline	<i>Corydalis incisa</i> , <i>C. bungeana</i>
Acetylugenol	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i>
Acetylsalicylic acid	<i>Ligusticum chuanziang</i> , <i>Paeonia albiflora</i> , <i>P. edulis</i> , <i>P. japonica</i> , <i>P. lactiflora</i> , <i>P. moutan</i> , <i>P. officinalis</i> , <i>Salvia militiorhiza</i> , <i>Sargentodoxa cuneata</i>
Acetylshikonin	<i>Arnebia euchroma</i> , <i>Lithospermum erythrorhizon</i> , <i>L. officinalis</i>
Achilleine	<i>Achillea alpina</i> , <i>A. millefolium</i>
Achillin	<i>Achillea alpina</i> , <i>A. millefolium</i>
Acidic resin	<i>Wikstroemia indica</i>
Aconine	<i>Aconitum laciniatum</i> , <i>A. kusnezoffii</i> , <i>A. chinense</i> , <i>A. vilmorinianum</i> , <i>A. pariculigerum</i>
Aconitic acid	<i>Arthraxon hispidus</i> , <i>Avena fatua</i>
Aconitine	<i>Aconitum laciniatum</i> , <i>A. kusnezoffii</i> , <i>A. chinense</i> , <i>A. vilmorinianum</i> , <i>A. pariculigerum</i> , <i>A. barbatum</i> , <i>A. austroyunnanense</i> , <i>A. balfouri</i> , <i>A. carmichaelii</i> , <i>A. chasmanthum</i> , <i>A. deinorrhizum</i> , <i>A. fischeri</i> , <i>A. jaluense</i> , <i>A. koreanum</i> , <i>A. napellus</i> , <i>A. praeparata</i> , <i>A. volubile</i>
Acoric acid	<i>Acorus calamus</i> var. <i>angustatus</i> , <i>A. gramineus</i> , <i>A. tatarinowii</i>
Actinidine	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i>
Actronycine	<i>Acronychia pedunculata</i> , <i>A. laurifolia</i>
Acutumidine	<i>Cocculus diversifolius</i> , <i>C. thunbergii</i>
Acutumine	<i>Cocculus diversifolius</i> , <i>C. thunbergii</i> , <i>Menispermum dauricum</i> , <i>Sinomenium acutum</i>
Acutuminine	<i>Menispermum dauricum</i>
Acylic diterpene glycosides	<i>Lycium chinense</i>
Acyl flavonol di-glycoside	<i>Hedyotis diffusa</i>
Adenine	<i>Angelica polymorpha</i> , <i>A. sinensis</i> , <i>Artemisia brachyloba</i> , <i>Chrysanthemum cinerariaefolium</i> , <i>C. jucundum</i> , <i>C. koraiense</i> , <i>C. morifolium</i> , <i>C. sinense</i> , <i>Pueraria montana</i> , <i>P. thunbergiana</i> , <i>Pyrethrum cinerariifolium</i> , <i>P. sinense</i> , <i>Solanum lyratum</i> , <i>S. melongena</i> , <i>Tetragonia tetragonoides</i>
Adenosine	<i>Cordyceps sinensis</i> , <i>Ganoderma lucidum</i> , <i>Verbena officinalis</i> , <i>V. oxysepalum</i>
Adiantone	<i>Adiantum boreale</i> , <i>A. capillus-junonis</i> , <i>A. pedatum</i> , <i>A. flabellulatum</i>
Adipedatol	<i>Adiantum boreale</i> , <i>A. capillus-junonis</i> , <i>A. pedatum</i> , <i>A. flabellulatum</i>
Adonilide	<i>Adonis chrysocyathus</i> , <i>A. brevistyla</i> , <i>A. vernalis</i>
Adynerin	<i>Nerum indicum</i>
Aegicerin	<i>Primula sieboldii</i> , <i>P. asiatica</i> , <i>P. vulgaris</i>

Component	Source
Aescilom	<i>Euphorbia lathyrus</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i>
Aescine	<i>Aesculus indica</i>
Aesculetin	<i>Azolla imbricata</i> , <i>Viburnum sargentii</i>
Aesculin	<i>Fraxinus bungeana</i> , <i>F. chinensis</i> , <i>F. floribunda</i> , <i>F. obovata</i> , <i>F. ornus</i> , <i>F. rhynchophylla</i>
Aesculine	<i>Aesculus indica</i>
Aflatoxin B	<i>Gossypium herbaceum</i>
Aflatoxins	<i>Coriandrum sativum</i>
Afzelin	<i>Ailanthus altissima</i> , <i>Dicranopteris linearis</i>
Agarol	<i>Aquilaria agallocha</i> , <i>A. sinensis</i>
Agaropectin	<i>Gelidium amansii</i>
Agarose	<i>Gelidium amansii</i>
Agarospinol	<i>Aquilaria agallocha</i> , <i>A. sinensis</i>
Agathin	<i>Sesbinia grandiflora</i>
Agerato-chromene	<i>Ageratum conyzoides</i> , <i>A. houstonianum</i>
Agglutinins	<i>Viscum album</i> , <i>V. coloratum</i>
Aglycone	<i>Corchorus capsularis</i> , <i>C. olitorius</i> , <i>Glycyrrhiza pallidiflora</i> , <i>G. uralensis</i> , <i>Picrorhiza kurroa</i>
Agnuside	<i>Vitex nequundo</i> , <i>V. trifolia</i> , <i>V. rotundifolia</i>
Agoniadin	<i>Plumeria rubra</i>
Agrimols	<i>Agrimonia eupatoria</i> , <i>A. pilosa</i> , <i>A. viscidula</i>
Agrimonine	<i>Agrimonia eupatoria</i> , <i>A. pilosa</i> , <i>A. viscidula</i>
Agrimonolide	<i>Agrimonia eupatoria</i> , <i>A. pilosa</i> , <i>A. viscidula</i>
Agrimophol	<i>Agrimonia eupatoria</i> , <i>A. pilosa</i> , <i>A. viscidula</i>
Ailanthone	<i>Ailanthus altissima</i>
Ajugasterone	<i>Ajuga bracteosa</i> , <i>A. decumbens</i> , <i>A. pygmaea</i> , <i>Alangium lamarckii</i>
Alangicine	<i>Alangium lamarckii</i>
Alangimarckine	<i>Alangium lamarckii</i>
Alanine	<i>Fagopyrum esculentum</i> , <i>Litchi chinensis</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Alatamine	<i>Euonymus alatus</i> , <i>E. bungeanus</i> , <i>E. maackii</i>
Albaspidin	<i>Dryopteris crassirhizoma</i> , <i>D. laeta</i> , <i>D. filix-mas</i>

Albiflorin	<i>Paenonia albiflora</i> , <i>P. edulis</i> , <i>P. japonica</i> , <i>P. lactiflora</i> , <i>P. moutan</i> , <i>P. officinalis</i>
Albigenic acid	<i>Codonopsis lanceolata</i>
Albumin	<i>Aesculus indica</i> , <i>Hyoscyamus bohemicus</i>
Alcohol derivatives	<i>Ledebouriella divaricata</i>
Alcohols	<i>Viola acuminata</i> , <i>V. alisoviana</i> , <i>V. collina</i> , <i>V. dissecta</i> , <i>V. mandshurica</i> , <i>V. patrini</i> , <i>V. prionantha</i> , <i>V. verecunda</i>
Aldehyde	<i>Hedychium coronarium</i> , <i>Perilla frutescens</i> , <i>P. ocyroides</i> , <i>P. polystachya</i> , <i>P. arguta</i> , <i>Plumeria rubra</i>
Algin	<i>Laminaria angusta</i> , <i>L. cichorioides</i> , <i>L. japonica</i> , <i>L. longipedalis</i> , <i>L. religiosa</i> , <i>Sargassum pallidum</i>
Alginic acid	<i>Sargassum pallidum</i>
Alisarin	<i>Galium bungei</i> , <i>G. spurium</i> , <i>G. verum</i>
Alisol A	<i>Alisma cordifolia</i> , <i>A. orientalis</i> , <i>A. plantago-aquatica</i> , <i>A. plantago</i>
Alisol B	<i>Alisma cordifolia</i> , <i>A. orientalis</i> , <i>A. plantago-aquatica</i> , <i>A. plantago</i>
Alisol monoacetate	<i>Alisma cordifolia</i> , <i>A. orientalis</i> , <i>A. plantago-aquatica</i> , <i>A. plantago</i>
Alizarin	<i>Morinda citrifolia</i> , <i>M. officinalis</i> , <i>Rubia akane</i> , <i>R. chinensis</i> , <i>R. cordifolia</i> , <i>R. cordifolia</i> , <i>R. mungista</i> , <i>R. sylvatica</i>
Alizarin-l-methyl ether	<i>Morinda parvifolia</i>
Alkaloid lamine	<i>Dipsacus asper</i>
Alkaloids	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Arisaema amurense</i> , <i>A. consanguineum</i> , <i>A. erubescens</i> , <i>A. heterophyllum</i> , <i>A. peninsulae</i> , <i>A. thunbergii</i> , <i>Caesalpinia pulcherrima</i> , <i>Capsella bursa-pastoris</i> , <i>Caragana sinica</i> , <i>C. microphylla</i> , <i>C. intermedia</i> , <i>C. franchetiana</i> , <i>Centipeda minima</i> , <i>Cephalanoplos segetum</i> , <i>Delonix</i> <i>regia</i> , <i>Dodonaea viscosa</i> , <i>Eclipta alba</i> , <i>E. marginata</i> , <i>E. prostrata</i> , <i>E. thermalis</i> , <i>Emilia sonchifolia</i> , <i>Erythrina corallodendron</i> , <i>E. indica</i> , <i>E. variegata</i> , <i>Flagellaria indica</i> , <i>Hyoscyamus bohemicus</i> , <i>H. niger</i> , <i>Maesa perlaris</i> , <i>Magnolia hypoleuca</i> , <i>M. coco</i> , <i>M. fortunei</i> , <i>M. officinalis</i> , <i>M. japonica</i> , <i>Mallotus</i> <i>japonicus</i> , <i>Ophiorrhiza japonica</i> , <i>O. mungos</i> , <i>Orchis latifolia</i> , <i>Psychotria rubra</i> , <i>P. serpens</i> , <i>Selaginella</i> <i>involvens</i> , <i>S. doederleinii</i> , <i>S. campestris</i> , <i>Solanum incanum</i> , <i>Spiraea salicifolia</i> , <i>S. chinensis</i> , <i>S. baicalensis</i> , <i>S. japonica</i> , <i>Tripterygium hypoglaucum</i> , <i>Tulipa edulis</i> , <i>T. gesneriana</i> , <i>Urtica angustifolia</i> , <i>U. cannabina</i> , <i>U. lobata</i> , <i>U. tenacissima</i> , <i>U. urens</i> , <i>U. utilis</i> , <i>Veratrum formosanum</i> , <i>Vernonia andersonii</i> , <i>V. cinerea</i> , <i>V. patula</i> , <i>Viscum album</i> , <i>V. coloratum</i> , <i>Wahlenbergia marginata</i> , <i>Zephyranthes carinata</i>
Alkamin-B	<i>Arnebia euchroma</i>
Alkannan	<i>Lithospermum erythrorhizon</i> , <i>L. officinalis</i>
Alkyl methyl quinolone alkaloids	<i>Evodia rutaecarpa</i>

Component	Source
Allamandin	<i>Allamanda cathatica</i>
Allantoin	<i>Dioscorea batatus</i> , <i>D. opposita</i>
Allelopathic essential oils	<i>Cyperus brevifolius</i> , <i>C. difformis</i> , <i>C. glomeratus</i> , <i>C. iria</i>
Allicin	<i>Allium chinense</i> , <i>A. odorum</i> , <i>A. sativum</i> , <i>A. tuberosum</i> , <i>A. liginosum</i>
Allistatin	<i>Allium chinense</i> , <i>A. odorum</i> , <i>A. sativum</i> , <i>A. tuberosum</i> , <i>A. uliginosum</i>
Allocriptopine	<i>Chelidonium album</i> , <i>C. hybridum</i> , <i>C. majus</i> , <i>C. serotinum</i>
Allomatatabiol	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i>
Allosecurinine	<i>Securinega suffruticosa</i>
Allyl isothiocyanate	<i>Brassica alba</i> , <i>B. juncea</i>
Allyl sinapic oil	<i>Draba nemorosa</i>
Allyl-l-propenyl disulfide	<i>Allium victorialis</i>
Aloe-emodin	<i>Aloe barbadensis</i> , <i>A. vera</i> , <i>Cassia alata</i> , <i>C. angustifolia</i> , <i>Rhamnus davurica</i> , <i>R. parvifolia</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i>
Aloins	<i>Aloe barbadensis</i> , <i>A. vera</i>
Alpha-agarofuran	<i>Aquilaria agallocha</i> , <i>A. sinensis</i>
Alpha-allocriptopine	<i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtchaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i> , <i>Macleaya cordata</i> , <i>Thalictrum</i> <i>aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Alpha-amyrenol	<i>Spilanthes acmella</i>
Alpha-amyrin	<i>Aleurites fordii</i> , <i>Alnus japonica</i> , <i>Cirsium chinense</i> , <i>C. japonicum</i> , <i>Pedicularis resupinata</i>
Alpha-amyrin palmitate	<i>Sambucus formosana</i>
Alpha-antiarin	<i>Antiaris toxicaris</i>
Alpha-antioside	<i>Antiaris toxicaris</i>
Alpha-bergamotene	<i>Perilla frutescens</i> , <i>P. ocymoides</i> , <i>P. polystachya</i> , <i>P. arguta</i>
Alpha-camphorene	<i>Commiphora myrrha</i>
Alpha-carotene-5,6-epoxide	<i>Cuscuta australis</i>
Alpha-caryophylline	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i>
Alpha-crocetin	<i>Gardenia angusta</i> , <i>G. jasminoides</i>
Alpha-cyperene	<i>Cyperus rotundus</i>
Alpha-cyperol	<i>Cyperus rotundus</i>

Alpha-cyperone	<i>Cyperus brevifolius</i> , <i>C. difformis</i> , <i>C. glomeratus</i> , <i>C. iria</i>
Alpha-dichroine	<i>Adamia chinensis</i> , <i>A. cyanea</i> , <i>A. versicolof</i>
Alpha-elaeo stearic	<i>Aleurites fordii</i>
Alpha-euphol	<i>Euphorbia kansui</i>
Alpha-euphorbol	<i>Euphorbia antiquorum</i> , <i>E. kansui</i>
Alpha-fenchene	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Alpha-globuline	<i>Phaseolus angularis</i> , <i>P. lunatus</i> , <i>P. radiatus</i> , <i>P. vulgaris</i>
Alpha-humulene	<i>Cyperus brevifolius</i> , <i>C. difformis</i> , <i>C. glomeratus</i> , <i>C. iria</i> , <i>Zingiber zerumbet</i>
Alpha-hydrojuglone-4-β-D-glucoside	<i>Juglans mandshurica</i> , <i>J. regia</i>
Alpha-ionone	<i>Lawsonia inermis</i>
Alpha-kainic acid	<i>Calloglossa leprieurii</i>
Alpha-ketoglutaric acid	<i>Phyllanthus simplex</i>
Alpha-leucodelphinidin	<i>Phyllanthus emblica</i>
Alpha-lupanine	<i>Caulophyllum robustum</i>
Alpha-methyl ether	<i>Morinda citrifolia</i> , <i>M. officinalis</i>
Alpha-obscurine	<i>Lycopodium annotinum</i> , <i>L. cernum</i> , <i>L. compianatum</i>
Alpha-onocerin	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Alpha-paristyphnin	<i>Paris polyphylla</i> , <i>P. quadrifolia</i>
Alpha-phellandrene	<i>Daucus carota</i> , <i>Elettaria cardamomum</i> , <i>Ledum palustre</i> , <i>Thymus vulgaris</i>
Alpha-phenylethylisothiocyante	<i>Rorippa indica</i> , <i>R. islandica</i> , <i>R. montana</i>
Alpha-phenylpropyl cinnamyl cinnamate	<i>Styrax tonkinensis</i> , <i>S. benzoin</i>
Alpha-pinene	<i>Aconitium deinorrtuzum</i> , <i>Chrysanthemum boreale</i> , <i>C. indicum</i> , <i>C. lavandulaefolium</i> , <i>C. procumbens</i> , <i>C. tripartium</i> , <i>Daucus carota</i> , <i>Glechoma hederacea</i> , <i>G. longituba</i> , <i>Juniperus rigida</i> , <i>Ledum palustre</i> , <i>Oenothera javanica</i> , <i>Zanthoxylum bungeanum</i>
Alpha-santalene	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Alpha-santalol	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Alpha-santenone	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Alpha-spinasterol	<i>Codonopsis lanceolata</i> , <i>Menyanthes trifoliata</i>
Alpha-taralin	<i>Aralia chinensis</i> , <i>A. cordata</i> , <i>A. elata</i>
Alpha-taraxerol	<i>Euphorbia antiquorum</i>

Component	Source
Alpha-terpinene	<i>Oenothera javanica</i>
Alpha-terpineol	<i>Cymbopogon citratus</i> , <i>Glechoma hederacea</i> , <i>G. longituba</i> , <i>Thymus amurensis</i> , <i>T. disjunctus</i> , <i>T. kitagawianus</i> , <i>T. komarovii</i> , <i>T. przewalskii</i> , <i>T. quinquecostatus</i> , <i>T. vulgaris</i>
Alpha-terpinyl acetate	<i>Thymus vulgaris</i>
Alpha-terthienyl	<i>Tagetes erecta</i>
Alpha-tertiary methanol	<i>Eclipta erecta</i>
Alpha-trevilline	<i>Erythroxylum coca</i>
Alpha-typhasterol	<i>Typha angustata</i> , <i>T. angustifolia</i> , <i>T. davidiana</i> , <i>T. latifolia</i> , <i>T. minima</i> , <i>T. orientalis</i> , <i>T. praeqalskii</i>
Althaeine	<i>Althaea rose</i>
Aluminum	<i>Portulaca pilosa</i>
Aluminum oxide	<i>Phyllostachys bambusoides</i> , <i>P. nigra</i>
Amaranthin	<i>Gomphrena globosa</i>
Amarbelin	<i>Cuscuta chinensis</i> , <i>C. europaea</i> , <i>C. japonica</i> , <i>C. lupuliformis</i>
Amarolide	<i>Ailanthus altissima</i>
Ambroide	<i>Chenopodium ambrosioides</i>
Amellin	<i>Scopolia dulcis</i>
Amentoflavone	<i>Cycas revoluta</i> , <i>Selaginella tamarisina</i> , <i>Thuja koraiensis</i> , <i>T. orientalis</i> , <i>T. chinensis</i>
Amino acids	<i>Acacia confusa</i> , <i>Ampelopsis aconitifolia</i> , <i>A. brevipedunculata</i> , <i>A. japonica</i> , <i>A. bodinieri</i> , <i>A. contonensis</i> , <i>A. humulifolia</i> , <i>Arachis hypogaea</i> , <i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i> , <i>Elaeagnus glabra</i> , <i>Evodia leptota</i> , <i>E. triphylla</i> , <i>Ganoderma lucidum</i> , <i>Lagera alata</i> , <i>Laminaria angusta</i> , <i>L. cichorioides</i> , <i>L. japonica</i> , <i>L. longipedalis</i> , <i>L. religiosa</i> , <i>Litchi chinensis</i> , <i>Mallotus paniculatus</i> , <i>Nepenthes raffsiana</i> , <i>Nymphaea tetragona</i> , <i>Oryza sativa</i> , <i>Phyllanthus virgatus</i> , <i>Pinellia ternata</i> , <i>P. tuberifera</i> , <i>Polygonum</i> <i>perfoliatum</i> , <i>P. tinctorium</i> , <i>Saururus chinensis</i> , <i>Urena procumbens</i>
Aminoadipic acid	<i>Avena fatua</i>
Aminol	<i>Cimicifuga dahurica</i> , <i>C. foetida</i> , <i>C. heracleifolia</i> , <i>C. racemosa</i> , <i>C. ussuriensis</i>
Amorphous dracoalban	<i>Daemonorops draco</i>
Amorphous dracoresene	<i>Daemonorops draco</i>
Amritoside	<i>Psidium guajava</i>
Amurine	<i>Papaver amurense</i> , <i>P. nudicaule</i> , <i>P. radiculatum</i>

Amuroine	<i>Papaver amurense</i> , <i>P. nudicaule</i> , <i>P. radicatum</i>
Amuroline	<i>Papaver amurense</i> , <i>P. nudicaule</i> , <i>P. radicatum</i>
Amygdalin	<i>Armeniaca ansu</i> , <i>A. mandsharica</i> , <i>A. sibirica</i> , <i>A. vulgaris</i> , <i>Eriobotrya japonica</i> , <i>Prunus mume</i> , <i>P. domestica</i> , <i>P. glandulosa</i> , <i>P. japonica</i> , <i>P. padus</i> , <i>P. armeniaca</i> , <i>Pyrrosia adnascens</i>
Amylase	<i>Hordeum vulgare</i>
Amylodextrins	<i>Myristica fragrans</i>
Amylose	<i>Aesculus chinensis</i> , <i>A. hippocastanum</i> , <i>Trapa bispinosa</i>
Amyrenol	<i>Sedum formosanum</i>
Amyrenone	<i>Sedum formosanum</i>
Amyrin	<i>Ficus carica</i>
Anacardic acid	<i>Ginkgo biloba</i>
Anagalligenone	<i>Anagalis arvensis</i>
Anagalline	<i>Anagalis arvensis</i>
Anagyrrine	<i>Sophora subprostrata</i>
Ananasic acid	<i>Ananas comosus</i>
Ancubin	<i>Veronica sibirica</i> , <i>Veronica undulata</i>
Andelin	<i>Angelica decursiva</i> .
Andrographolide	<i>Andrographis paniculata</i>
Andromedotoxin	<i>Chimaphila umbellata</i> , <i>Lyonia ovalifolia</i> , <i>Rhododendron sinensis</i>
Anemonin	<i>Caltha palustris</i> , <i>Clematis chinensis</i> , <i>C. florida</i> , <i>C. hexapetala</i> , <i>C. minor</i> , <i>C. sinensis</i> , <i>C. terniflora</i> , <i>Pulsatilla</i> <i>ambigua</i> , <i>P. cernua</i> , <i>P. chinensis</i> , <i>Ranunculus chinensis</i> , <i>R. sceleratus</i> , <i>R. japonicus</i> , <i>R. sarmentosa</i>
Anemonol	<i>Clematis chinensis</i> , <i>C. florida</i> , <i>C. hexapetala</i> , <i>C. minor</i> , <i>C. sinensis</i> , <i>C. terniflora</i>
Anethol	<i>Foeniculum officinale</i> , <i>F. vulgare</i> , <i>Illicium verum</i>
Anethole	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Juniperus rigida</i> , <i>Magnolia biloba</i> , <i>M. denudata</i> , <i>M. discolor</i> , <i>M. liliflora</i> , <i>M. purpurea</i>
Angelic acid	<i>Angelica pubescens</i> , <i>A. grosserrata</i> , <i>Blumea lacera</i> , <i>Matricaria chamomilla</i>
Angelicin	<i>Psoralea corylifolia</i>
Angelicotoxin	<i>Angelica pubescens</i>
Angelol	<i>Angelica pubescens</i>
Angenomalin	<i>Angelica amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i>

Component	Source
Anhydroderrid	<i>Milletia reticulata</i> , <i>M. taiwaniana</i>
Anisaldehyde	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Foeniculum officinale</i> , <i>F. vulgare</i> , <i>Illicium verum</i>
Anisatin	<i>Illicium lanacedatum</i>
Anisic acid	<i>Eupatorium odoratum</i>
Anisic ketone	<i>Illicium verum</i>
Anisodamine	<i>Datura suaveolens</i> , <i>Scopolia tangutica</i>
Anisodine	<i>Datura suaveolens</i> , <i>Scopolia tangutica</i>
Ankorine isotubulosine	<i>Alangium lamarckii</i>
Anneparine	<i>Nelumbium nuciferum</i> , <i>N. speciosum</i>
Anomalin	<i>Angelica amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i> , <i>Peucedanum formosanum</i>
Anonaine	<i>Nelumbium nuciferum</i> , <i>N. speciosum</i>
Anromedotoxin	<i>Rhododendron dauricum</i>
Anthelmic acid	<i>Matricaria chamomilla</i>
Antheraxanthin	<i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Anthocyanin	<i>Cynomorium coccineum</i> , <i>C. songarium</i>
Anthocyanidines	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Heracleum dissectum</i> , <i>H. lanatum</i> , <i>Polygonum bistorta</i> , <i>Sanguisorba officinalis</i> , <i>S. grandiflora</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>Taraxacum officinale</i>
Anthocyanins	<i>Glehnia littoralis</i> , <i>Perilla frutescens</i> , <i>P. ocymoides</i> , <i>P. polystachya</i> , <i>P. arguta</i>
Anthranil acid	<i>Jasminum sambra</i>
Anthranol	<i>Rumex patientia</i>
Anthraquinoids	<i>Nepenthes raffsiana</i>
Anthraquinone derivative	<i>Cassia angustifolia</i>
Anthraquinones	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i> , <i>C. occidentalis</i> , <i>C. torosa</i> , <i>Hedyotis diffusa</i> , <i>Heracleum dissectum</i> , <i>H. lanatum</i> , <i>Polygonum bistorta</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i> , <i>Sanguisorba officinalis</i> , <i>S. grandiflora</i> , <i>S. officinalis</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>Taraxacum officinale</i>
Anthraxin	<i>Arthruxon hispidus</i>
Anthriscin	<i>Anthriscus aemula</i> , <i>A. sylvestris</i>

Anti-HIV protein MAP 30
Apigenin

Apigenin-7-β-D-glucoside

Apigenin-7-diglucuronide

Apigenin-7-O-glucoside

Apigenin-8-C-glucoside

Apiin

Apyrocatechol

Arabinan polymer

Arabinon

Arabinose

Arabinose ester

Arachic

Arachidic acid

Arachine

Aragome

Araligenin

Aralosides

Arasaponins

Arborinol

Arborinone

Arbutin

Arbutin ericolin

Archangelicin

Arctigenin

Momordica charantia

Cassia occidentalis, *C. torosa*, *Clinopodium chinense*, *C. polycephalum*, *C. gracile*, *C. umbrosum*,

Codonopsis lanceolata, *C. mucronata*, *Daphne fortunei*, *D. genkwa*, *Jatropha podagrica*, *Juncus effusus*,

Perilla frutescens, *P. ocymoides*, *P. polystachya*, *P. arguta*, *Selaginella tamarisina*, *Thymus amurensis*,

T. disjunctus, *T. kitagawianus*, *T. komarovii*, *T. przewalskii*, *T. quinquecostatus*

Agrimonia eupatoria, *A. pilosa*, *A. viscidula*

Clerodendrum trichotomum, *C. spicatus*

Spirodela polyrhiza

Spirodela polyrhiza

Apium graveolens

Citrus reticulata

Bupleurum chinense, *B. falcatum*, *B. scorzoneraefolium*

Gleditsia horrida, *G. sinensis*, *G. xylocarpa*

Aster tataricus, *Camellia japonica*, *Juncus communis*, *Tamarindus indicus*, *T. officinale*

Psidium guajava

Acanthopanax gracilistylus, *A. spinosum*

Jatropha gossypifolia, *J. curcas* *Sinapis alba*

Arachis hypogaea

Asparagus cochinchinensis, *A. falcatus*, *A. insularis*, *A. lucidus*, *A. officinalis*

Aralia chinensis, *A. cordata*, *A. elata*

Aralia chinensis, *A. cordata*, *A. elata*

Panax zingiberensis

Imperata arundinaceae, *I. cylindrica*

Imperata arundinaceae, *I. cylindrica*

Chimaphila umbellata, *Pyrola decorata*, *P. japonica*, *P. incarnata*, *P. renifolia*, *P. rotundifolia*, *Pyrrosia*

adnascens, *Sedum aizoon*, *Senecio cannabifolius*, *Vaccinium bracteatum*, *V. vitis-idaea*, *Veronica sibirica*.

V. undulata

Ledum palustre

Cnidium monnieri

Arctium lappa, *Lappa communis*, *L. edulis*, *L. major*, *L. minor*

Component	Source
Actin	<i>Arctium lappa</i> , <i>Lappa communis</i> , <i>L. edulis</i> , <i>L. major</i> , <i>L. minor</i>
Arecholidine	<i>Areca catechu</i> , <i>A. hortonsis</i>
Arecholine	<i>Areca catechu</i> , <i>A. hortonsis</i>
Aresentic acid	<i>Juncus effusus</i>
Argamolic acid	<i>Psidium guajava</i>
Arginine	<i>Cucumis sativus</i> , <i>Dioscorea opposita</i> , <i>D. batatus</i> , <i>Dolichos lablab</i> , <i>Litchi chinensis</i>
Arginine glucoside	<i>Solanum lyratum</i> , <i>S. melongen</i>
Aricine	<i>Rauvolfia verticilata</i>
Aristolochic acid	<i>Aristolochia shimadai</i> , <i>A. debilis</i> , <i>Clematis armandii</i> , <i>C. heracleifolia</i>
Aristolochic acid A	<i>Aristolochia contorta</i> , <i>A. kaempferi</i> , <i>A. longa</i> , <i>A. recurvilabra</i>
Aristolochic acid D	<i>Aristolochia contorta</i> , <i>A. kaempferi</i> , <i>A. longa</i> , <i>A. recurvilabra</i>
Aristolone	<i>Aristolochia debilis</i>
Aristolosite	<i>Aristolochia contorta</i> , <i>A. kaempferi</i> , <i>A. longa</i> , <i>A. recurvilabra</i>
Arjunolic acid	<i>Elaeagnus oldhumii</i>
Arnidiol	<i>Calendula officinalis</i>
Aromadendrene	<i>Cinnamomum camphora</i>
Aromadendrin	<i>Thuja koraiensis</i> , <i>T. orientalis</i> , <i>T. chinensis</i>
Aromadendrine	<i>Menyanthes trifoliata</i>
Aromatic acids	<i>Eupatorium odoratum</i>
Arrenin	<i>Anagalis arvensis</i>
Artemisia alcohol	<i>Artemisia argyi</i> , <i>A. halodendron</i> , <i>A. igniaria</i> , <i>A. indica</i> , <i>A. integrifolia</i> , <i>A. japonica</i> , <i>A. keiskeana</i> , <i>A. lagocephala</i> , <i>A. lavandulaefolia</i> , <i>A. scoparia</i> , <i>A. selengensis</i> , <i>A. ieversiana</i> , <i>A. vulgarts</i>
Artemisine	<i>Artemisia brachyloba</i>
Artemisinin	<i>Artemisia annua</i> , <i>A. apiacea</i>
Artesunate	<i>Artemisia annua</i> , <i>A. apiacea</i>
Articulain	<i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i>
Arundoin	<i>Imperata arundinaceae</i> , <i>I. cylindrica</i> , <i>Lophatherum gracile</i>
Asarensinotannol	<i>Ferula assa-foetida</i> , <i>F. bungeana</i>
Asariline	<i>Asarum canadense</i> , <i>A. heterotropoides</i> , <i>A. sieboldii</i>

Asarone	<i>Daucus carota</i>
Ascaridol	<i>Chenopodium ambrosioides</i> , <i>Ledum palustre</i>
Ascorbic acid	<i>Achyranthes asperia</i> , <i>Amaranthus tricolor</i> , <i>A. lividus</i> , <i>A. blitum</i> , <i>A. viridis</i> , <i>Benincasa cerifera</i> , <i>B. hispida</i> , <i>Boehmeria densiflora</i> , <i>Canarium album</i> , <i>C. sinense</i> , <i>Castanea crenata</i> , <i>C. mollissima</i> , <i>Corylus</i> <i>heterophylla</i> , <i>C. mandshurica</i> , <i>Petasites japonicus</i> , <i>Rosa multiflora</i> , <i>Syzygium aromaticum</i> , <i>Zea mays</i>
Ash	<i>Urtica angustifolia</i> , <i>U. cannabina</i> , <i>U. lobata</i> , <i>U. tenacissima</i> , <i>U. urens</i> , <i>U. utilis</i>
Asiaticoside	<i>Centella asiatica</i>
Asoryl-ketone	<i>Asarum canadense</i> , <i>A. heterotropoides</i> , <i>A. sieboldii</i>
Asparagic acid	<i>Litchi chinensis</i>
Asparagine	<i>Arundo donax</i> , <i>A. phragmites</i> , <i>Arnebia euchroma</i> , <i>Humulus scandens</i> , <i>Phragmites communis</i> , <i>Pueraria</i> <i>montana</i> , <i>P. thunbergiana</i> , <i>Sagittaria sagittifolia</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Asparaginic acid	<i>Avena fatua</i>
Asperuloside	<i>Oldenlandia diffusa</i>
Astilbin	<i>Astilbe longicarpa</i> , <i>A. chinensis</i>
Astragalin	<i>Astragalus chinensis</i> , <i>A. complanatus</i> , <i>A. henryi</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i> , <i>Cyrtomium falcatum</i> , <i>Dysosma pleiantha</i> , <i>Equisetum</i> <i>arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i> , <i>Matteuccia struthiopteris</i> , <i>Paeonia obovata</i> , <i>P. suffruticosa</i> , <i>P. veitchii</i> , <i>Solidago dahurica</i> , <i>S. pacifica</i> , <i>S. virgaurea</i> , <i>Tribulus terrestris</i>
Astragalosides	<i>Astragalus complanatus</i> , <i>A. henryi</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i>
Atractylodine	<i>Atractylis chinensis</i> , <i>A. lancea</i> , <i>A. lyrata</i> , <i>A. ovata</i>
Atractylol	<i>Atractylis chinensis</i> , <i>A. lancea</i> , <i>A. lyrata</i> , <i>A. ovata</i>
Atractylone	<i>Atractylodes lancea</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. koreana</i> , <i>A. lancea</i> , <i>A. lyrata</i> , <i>A. macrocephala</i> , <i>A. ovata</i>
Atropine	<i>Datura suaveolens</i>
Aucubin	<i>Melasma arvense</i> , <i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri</i> , <i>P. major</i> , <i>Veronica anagallis-</i> <i>aquatica</i> , <i>Vitex trifolia</i> , <i>V. rotundifolia</i> , <i>V. nequundo</i>
Aurantio-obtusin rubrofusarin	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i>
Aurapten	<i>Dictamnus albus</i> , <i>D. dasycarpus</i>
Auroxanthin	<i>Physalis alkekengi</i>
Austroinulin	<i>Stevia rebaudiana</i>

Component	Source
Avenasterol	<i>Avena fatua</i> , <i>Linum stelleroides</i> , <i>L. usitatissimum</i>
Avicularin	<i>Chimaphila umbellata</i> , <i>Loranthus parasiticus</i> , <i>L. yadoriki</i> , <i>Persicaria amphibia</i> , <i>Polygonum aviculare</i> , <i>P. bistorta</i> , <i>P. lapidosa</i> , <i>P. manshuriensis</i> , <i>P. vivipara</i> , <i>Psidium guajava</i> , <i>Saururus chinensis</i> , <i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>
Awobanin	<i>Commelina communis</i>
Azadarachtin	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Azaleatin	<i>Rhododendron mucronatum</i>
Azelaic acid	<i>Ailanthus altissima</i> , <i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Azulene	<i>Artemisia gmelini</i> , <i>Matricaria chamomilla</i> , <i>Melaleuca leucadendra</i> , <i>Piper cubeba</i>
Baccatin	<i>Taxus cuspidata</i> , <i>T. chinensis</i> , <i>T. yunnanensis</i>
Baicalein	<i>Scutellaria baicalensis</i> , <i>S. grandiflora</i> , <i>S. lanceolaria</i> , <i>S. macrantha</i> , <i>S. rivulararis</i> , <i>S. viscidula</i>
Baicalin	<i>Scutellaria baicalensis</i> , <i>S. grandiflora</i> , <i>S. lanceolaria</i> , <i>S. macrantha</i> , <i>S. rivulararis</i> , <i>S. viscidula</i> , <i>S. formosana</i>
Balsam	<i>Liquidambar acerifolia</i> , <i>L. formosana</i> , <i>L. maximowiczii</i>
Balsamic acid	<i>Styrax tonkinensis</i> , <i>S. benzoin</i>
Barbaloin	<i>Aloe barbadensis</i> , <i>A. vera</i>
Barbatic acid	<i>Usnea diffracta.</i> , <i>U. longissima</i>
Barium	<i>Juncus effusus</i>
Bauerenol	<i>Acronychia pedunculata</i> , <i>A. laurifolia</i>
Bavachinin	<i>Psoralea corylifolia</i>
Behenic acid	<i>Brassica alba</i> , <i>B. juncea</i> , <i>Pongamia pinnata</i>
Bellidifolin	<i>Swertia pseudochinensis</i>
Bensaldehyde	<i>Rosa rugosa</i> , <i>Cinnamomum zeglanicum</i> , <i>Melaleuca leucadendra</i> , <i>Prunus persica</i>
Benzene tert-butyl	<i>Zanthoxylum bungeanum</i>
Benzoic acid	<i>Arisaema amurense</i> , <i>A. consanguineum</i> , <i>A. erubescens</i> , <i>A. heterophyllum</i> , <i>A. peninsulae</i> , <i>A. peninsulae</i> , <i>A. thunbergii</i> , <i>Daemonorops draco</i> , <i>Jasminum samba</i> , <i>Paeonia albiflora</i> , <i>P. edulis</i> , <i>P. japonica</i> , <i>P. lactiflora</i> , <i>P. moutan</i> , <i>P. officinalis</i> , <i>Phyllostachys bambusoide</i> , <i>P. nigra</i>
Benzolacetic ester	<i>Daemonorops margaritae</i>
Benzoquinone	<i>Ligusticum chuangxiong</i>
Benzoyl paeoniflorin	<i>Paeonia albiflora</i> , <i>P. edulis</i> , <i>P. japonica</i> , <i>P. lactiflora</i> , <i>P. moutan</i> , <i>P. officinalis</i>

Benzoyl salicin	<i>Populus alba</i> , <i>P. davidiana</i> , <i>P. tomentosa</i>
Benzoyllecgonine	<i>Erythroxylum coca</i>
Benzyl alcohol	<i>Prunus persica</i>
Benzyl isothiocyanate	<i>Brassica alba</i> , <i>B. juncea</i>
Benzylacetone	<i>Aquilegia buergeriana</i> , <i>A. parviflora</i>
Benzylbenzoic acid	<i>Conyza canadensis</i>
Berbamine	<i>Berberis amurensis</i> , <i>B. poiretii</i> , <i>B. sibirica</i> , <i>B. soulieana</i> , <i>Stephania cepharantha</i> , <i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriel</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Berberine	<i>Berberis amurensis</i> , <i>B. poiretii</i> , <i>B. sibirica</i> , <i>B. soulieana</i> , <i>Caltha palustris</i> , <i>Coptis chinensis</i> , <i>C. japonica</i> , <i>C. teeta</i> , <i>Chenopodium ambrosioides</i> , <i>Mahonia japonica</i> , <i>Nandina domestica</i> , <i>Papaver somniferum</i> , <i>Phellodendron amurense</i> , <i>P. chinensis</i> , <i>Scutellaria formosana</i> , <i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriel</i> , <i>T. foetidum</i> , <i>T. glandulissimum</i> , <i>T. ichangense</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i> , <i>Xanthoxylum piperitum</i> , <i>Zanthoxylum schinifolium</i>
Bergapten	<i>Anethum graveoleus</i> , <i>Angelica amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i> , <i>A. pubescens</i> , <i>Dictamnus albus</i> , <i>D. dasycarpus</i> , <i>Heracleum lanatum</i> , <i>Poncirus trifoliata</i> , <i>Zanthoxylum schinifolium</i>
Bergaptin	<i>Ficus carica</i>
Bergenin	<i>Ardisia quinqueгона</i> , <i>A. sieboldii</i> , <i>A. longicarpa</i> , <i>A. chinensis</i> , <i>Cuscuta chinensis</i> , <i>C. europaea</i> , <i>C. japonica</i> , <i>C. lupuliformis</i> , <i>Mallotus repandus</i>
Berganine glucoside	<i>Ardisia japonica</i>
Beta-agarofuran	<i>Aquilaria agallocha</i> , <i>A. sinensis</i>
Beta-amirine	<i>Jatropha podagrica</i>
Beta-amyrenol	<i>Spilanthes acmella</i>
Beta-amyrin	<i>Aleurites fordii</i> , <i>Chimaphila umbellata</i> , <i>Cirsium chinense</i> , <i>C. japonicum</i> , <i>Cuscuta chinensis</i> , <i>C. europaea</i> , <i>C. japonica</i> , <i>C. lupuliformis</i> , <i>Eclipta erecta</i> , <i>Eupatorium odoratum</i> , <i>Euphorbia antiquorum</i> , <i>Firmiana</i> <i>simplex</i> , <i>Pedicularis resupinata</i> , <i>Tamarindus indicus</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i> , <i>Viburnum</i> <i>sargentii</i> , <i>Viscum album</i> , <i>V. coloratum</i>
Beta-amyrin acetate	<i>Artocarpus altilis</i> , <i>Firmiana simplex</i>
Beta-asarone	<i>Acorus calamus</i> , <i>Achyranthes asperia</i> , <i>Amaranthus tricolor</i> , <i>Boehmeria densiflora</i> , <i>Canarium album</i> , <i>C. sinense</i> , <i>Castanea crenata</i> , <i>C. mollissima</i> , <i>Corylus heterophylla</i> , <i>C. mandshurica</i> , <i>Petasites japonicus</i> , <i>Zea mays</i>

Component	Source
Beta-carotenoid	<i>Crocus sativus</i> , <i>Hippophae rhamnoides</i>
Beta-caryophyllene	<i>Ageratum conyzoides</i> , <i>A. houstonianum</i> , <i>Artemisia argyi</i> , <i>A. halodendron</i> , <i>A. igniaria</i> , <i>A. indica</i> , <i>A. integrifolia</i> , <i>A. japonica</i> , <i>A. keiskeana</i> , <i>A. lagocephala</i> , <i>A. lavandulaefolia</i> , <i>A. scoparia</i> , <i>A. selengensis</i> , <i>A. sieversiana</i> , <i>A. vulgarts</i> , <i>Murraya paniculata</i> , <i>Perilla frutescens</i> , <i>P. ocymoides</i> , <i>P. polystachya</i> , <i>P. arguta</i> , <i>Vitex chinensis</i> , <i>V. jeguaod</i>
Beta-caryophylline	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i>
Beta-cyperene	<i>Cyperus rotundus</i>
Beta-cyperol	<i>Cyperus rotundus</i>
Beta-D-glucosyloxy	<i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i>
Beta-dichroine	<i>Adamia chinensis</i> , <i>A. cyanea</i> , <i>A. versicolof</i>
Beta-dihydropseudoionone	<i>Cymbopogon citratus</i>
Beta-dimethylacrylate	<i>Arnebia euchroma</i>
Beta-dimethylacrytoylshikonin	<i>Arnebia euchroma</i>
Beta-elemene	<i>Juniperus rigida</i> , <i>Panax ginseng</i>
Beta-eudesmol	<i>Atractylis chinensis</i> , <i>A. lancea</i> , <i>A. lyrata</i> , <i>A. ovata</i> , <i>Magnolia hypoleuca</i> , <i>M. officinalis</i> , <i>M. japonica</i>
Beta-globulin	<i>Phaseolus angularis</i> , <i>P. lunatus</i> , <i>P. radiatus</i> , <i>P. vulgaris</i>
Beta-glycyrrhetic acid	<i>Glycyrrhiza pallidiflora</i> , <i>G. uralensis</i>
Beta-guaienen	<i>Artemisia lactiflora</i>
Beta-gurjunene	<i>Zanthoxylum bungeanum</i>
Beta-ionone	<i>Lawsonia inermis</i>
Beta-methylaesculetin	<i>Convolvulus arvensis</i>
Beta-OH-isovalerylshikonin	<i>Arnebia euchroma</i>
Beta-p glucophyranoside	<i>Bauhinia championi</i>
Beta-phellandrene	<i>Osmanthus fragrans</i>
Beta-phenethyl alcohol	<i>Litchi chinensis</i>
Beta-pinene	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Asarum canadense</i> , <i>A. heterotropoides</i> , <i>A. sieboldii</i> , <i>Glechoma</i> <i>hederacea</i> , <i>G. longituba</i> , <i>Hedychium coronarium</i> , <i>Ledum palustre</i> , <i>Lindera glauca</i> , <i>Oenothera javanica</i>
Beta-santalene	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Beta-santalol	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>

Beta-selinene	<i>Cyperus brevifolius</i> , <i>C. difformis</i> , <i>C. glomeratus</i> , <i>C. iria</i>
Beta-sitosterol	<i>Acanthopanax giraldii</i> , <i>A. gracilistylus</i> , <i>A. spinosum</i> , <i>Adenophora triphylla</i> , <i>A. verticillata</i> , <i>Adina rubella</i> , <i>A. ratemosa</i> , <i>Ailanthus altissima</i> , <i>Ajuga bracteosa</i> , <i>Aletris formosuna</i> , <i>A. spicata</i> , <i>Aristolochia contorta</i> , <i>A. kaempferi</i> , <i>A. longa</i> , <i>A. recurvilabra</i> , <i>Arnebia euchroma</i> , <i>Avena fatua</i> , <i>Bauhinia championi</i> , <i>Cirsium chinense</i> , <i>C. japonicum</i> , <i>Cuscuta chinensis</i> , <i>C. europaea</i> , <i>C. japonica</i> , <i>C. lupuliformis</i> , <i>Cynodon dactylon</i> , <i>Cynomorium coccineum</i> , <i>C. songarium</i> , <i>Cyperus rotundus</i> , <i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i> , <i>Firmiana simplex</i> , <i>Glehnia littoralis</i> , <i>Ipomoea cairica</i> , <i>Jatropha podagrica</i> , <i>Lespedeza cuneata</i> , <i>Matteuccia struthiopteris</i> , <i>Oldenlandia diffusa</i> , <i>Ophioglossum japonicum</i> , <i>Ophiopogon japonicus</i> , <i>Ophiorrhiza japonica</i> , <i>O. mungos</i> , <i>Papaver somniferum</i> , <i>Petasites japonicus</i> , <i>Polygonatum chinense</i> , <i>P. cirrhifolium</i> , <i>P. macropodium</i> , <i>P. officinale</i> , <i>P. sibiricum</i> , <i>P. stenophyllum</i> , <i>P. odoratum</i> , <i>P. vulgare</i> , <i>Prunus padus</i> , <i>Rauvolfia verticillata</i> , <i>Rubus coreanus</i> , <i>R. crataegifolius</i> , <i>R. matsumuranus</i> , <i>R. saxatilis</i> , <i>Schizonepeta multifida</i> , <i>S. tenuifolia</i> , <i>Scopalia dulcis</i> , <i>Scutellaria baicalensis</i> , <i>S. grandiflora</i> , <i>S. lanceolaria</i> , <i>S. macrantha</i> , <i>S. rivularis</i> , <i>S. viscidula</i> , <i>Solanum incanum</i> , <i>Syzygium cumini</i> , <i>Tamarindus indicus</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i> , <i>Trapa bispinosa</i> , <i>Viburnum sargentii</i>
Beta-sitosterol glucoside	<i>Eleutherococcus senticosus</i>
Beta-sitosterolm	<i>Aleurites fordii</i>
Beta-sitosteryl palmitate	<i>Adenophora triphylla</i> , <i>A. verticillata</i>
Beta-solamargine	<i>Solanum aculeatissimum</i>
Beta-sotpsterols	<i>Dioscorea bulbifera</i>
Beta-sterol	<i>Ginkgo biloba</i>
Beta-taralin	<i>Aralia chinensis</i> , <i>A. cordata</i> , <i>A. elata</i>
Beta-trevilline	<i>Erythroxylum coca</i>
Betacyamines	<i>Gomphrena globosa</i>
Betacyanin	<i>Portulaca grandiflora</i>
Betaine	<i>Amaranthus caudatus</i> , <i>A. paniculatus</i> , <i>Astragalus complanatus</i> , <i>A. henryi</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i> , <i>Firmiana simplex</i> , <i>Lycium chinense</i> , <i>L. barbarum</i> , <i>L. megistocarpum</i> , <i>L. ovatum</i> , <i>L. trewianum</i> , <i>L. turbinatum</i> , <i>Salsola collina</i>
Betanidin	<i>Bougainvillea brasiliensis</i> , <i>B. glabra</i> , <i>Portulaca grandiflora</i>
Betanin	<i>Portulaca grandiflora</i>
Betonicine	<i>Achillea alpina</i> , <i>A. millefolium</i>

Component	Source
Betulafolienetetraol	<i>Betula mandshurica</i> , <i>B. platyphylla</i>
Betulafolienetriol	<i>Betula mandshurica</i> , <i>B. platyphylla</i>
Betulic acid	<i>Ziziphus jujuba</i> , <i>Z. spinosa</i>
Betulin	<i>Betula mandshurica</i> , <i>B. platyphylla</i> , <i>Euphorbia lathyrus</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i> , <i>Platycodon autumnalis</i> , <i>P. grandiflorum</i> , <i>P. sinensis</i> , <i>Vicia faba</i> , <i>Ziziphus jujuba</i> , <i>Z. spinosa</i>
Betulinic acid	<i>Adina rubella</i> , <i>A. ratemosa</i> , <i>Alnus japonica</i> , <i>Diospyros chinensis</i> , <i>D. costata</i> , <i>D. khaki</i> , <i>D. lotus</i> , <i>D. roxburgii</i> , <i>Melaleuca leucadendra</i> , <i>Menyanthes trifoliata</i> , <i>Pedicularis resupinata</i> , <i>Syzygium cuminii</i> , <i>Ziziphus jujuba</i> , <i>Z. spinosa</i>
Betuloside	<i>Betula mandshurica</i> , <i>B. platyphylla</i>
Bianthraquinonyl	<i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i>
Biatractylolide	<i>Atractylodes chinensis</i> , <i>A. japonica</i> , <i>A. koreana</i> , <i>A. lancen</i> , <i>A. macrocephala</i> , <i>A. ovata</i>
Biflorine	<i>Oldenlandia chrysotricha</i> , <i>C. corymbosa</i>
Biflorone	<i>Oldenlandia chrysotricha</i> , <i>C. corymbosa</i>
Bigelovin	<i>Forsythia suspensa</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i>
Bilobal	<i>Ginkgo biloba</i>
Bilobetin	<i>Ginkgo biloba</i>
Biotin	<i>Angelica polymorpha</i> , <i>A. sinensis</i> , <i>Arachis hypogaea</i> , <i>Polyporus umbellatus</i>
Bis (2-ethyl butyl) phthalate	<i>Oenothera javanica</i>
Bisabolene	<i>Daucus carota</i> , <i>Murraya paniculata</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Bisesquiterpenoid	<i>Atractylodes chinensis</i> , <i>A. japonica</i> , <i>A. koreana</i> , <i>A. lancen</i> , <i>A. macrocephala</i> , <i>A. ovata</i>
Bitter glycoside	<i>Centaurium meyeri</i>
Bitter principle	<i>Elephantopus scaber</i>
Bocconine	<i>Macleaya cordata</i>
Bocconoline	<i>Macleaya cordata</i>
Bogoroside	<i>Antiaris toxicaris</i>
Bonducin	<i>Caesalpinia decapetula</i>
Borneol	<i>Artemisia argyi</i> , <i>A. gmelini</i> , <i>A. halodendron</i> , <i>A. igniaria</i> , <i>A. indica</i> , <i>A. integrifolia</i> , <i>A. japonica</i> , <i>A. keiskeana</i> , <i>A. lagocephala</i> , <i>A. lavandulaefolia</i> , <i>A. scoparia</i> , <i>A. selengensis</i> , <i>A. sieversiana</i> , <i>A. vulgarts</i> , <i>Blumea balsumifera</i> , <i>Chrysanthemum boreale</i> , <i>C. indicum</i> , <i>C. lavandulaefolium</i> , <i>C. procumbens</i> , <i>C. tripartium</i> ,

Borneol acetate	<i>Coriandrum sativum</i> , <i>Cunninghamia lanceolata</i> , <i>Curcuma pallida</i> , <i>C. phaeocoulis</i> , <i>Dryobalanops aromatica</i> , <i>D. camphora</i> , <i>Hedyotis corymbosa</i> , <i>Juniperus rigida</i> , <i>Kaempferia galanga</i> , <i>Thymus amurensis</i> , <i>T. disjunctus</i> , <i>T. kitagawianus</i> , <i>T. komarovii</i> , <i>T. przewalskii</i> , <i>T. quinquecostatus</i> , <i>T. vulgaris</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Bornol	<i>Amomum cardamomum</i> , <i>A. globosum</i> , <i>A. tsao-ko</i> , <i>A. villosum</i> , <i>A. xanthioides</i>
Bornyl acetate	<i>Chrysanthemum jucundum</i> , <i>C. koraiense</i> , <i>C. morifolium</i> , <i>C. sinense</i>
Bornyl isovalerate	<i>Eupatorium chinense</i> , <i>E. lindleyanum</i> , <i>E. japonicum</i> , <i>Hedyotis corymbosa</i> , <i>Thymus vulgaris</i>
Bornylautate	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Boschniakine	<i>Lindera glauca</i>
Boschnialactone	<i>Cistanche deserticola</i>
Bourbonene	<i>Cistanche deserticola</i>
Brahmissoside	<i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i>
Brahmoside	<i>Centella asiatica</i>
Brasilin	<i>Centella asiatica</i>
Bromelin	<i>Caesalpinia sappan</i>
Bruceines	<i>Ananas comosus</i>
Bruceolide	<i>Brucea javanica</i> , <i>B. sumatrana</i>
Brucine	<i>Brucea javanica</i> , <i>B. sumatrana</i>
Brusatol	<i>Strychnos nux-vomica</i> , <i>S. pierriana</i>
Buddleoglycoside	<i>Brucea javanica</i> , <i>B. sumatrana</i>
Bufofenine	<i>Buddleia formosana</i> , <i>B. madagascariensis</i> , <i>B. officinalis</i>
Bulbocapnine	<i>Desmodium pulehellum</i> , <i>Phyllodium pulchellum</i>
Bullatines	<i>Corydalis decumbens</i>
Bupleuran	<i>Aconitum barbatum</i> , <i>A. austroyunnanense</i>
Bursic acid	<i>Bupleurum chinense</i> , <i>B. falcatum</i> , <i>B. scorzoneraefolium</i>
Buteine	<i>Capsella bursa-pastoris</i>
Butin	<i>Bidens tripartita</i>
Butyridenephaliide	<i>Bidens tripartita</i>
Butyric acid	<i>Angelica polymorpha</i> , <i>A. sinensis</i>
	<i>Ajuga bracteosa</i> , <i>Euphorbia coraroides</i> , <i>E. lasiocaula</i> , <i>E. lunulata</i> , <i>E. pallasii</i> , <i>E. pekinensis</i> , <i>E. sampsoni</i> , <i>E. sieboldiana</i> , <i>E. esula</i> , <i>E. helioscopia</i> , <i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i> , <i>Pueraria montana</i> , <i>P. thunbergiana</i> , <i>Ulmus campestris</i> , <i>U. macrocarpa</i> , <i>U. pumila</i>

Component	Source
Buxanmine E	<i>Buxus harlandii</i> , <i>B. microphylla</i>
Buxpiine	<i>Buxus microphylla</i>
Buxpiine K	<i>Buxus harlandii</i>
Buxtauine	<i>Buxus microphylla</i>
Byak-angelicin	<i>Angelica pubescens</i> , <i>A. amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i>
Byak-angelicol	<i>Angelica amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i> , <i>A. pubescens</i>
c-3-epi-wilsonianine	<i>Cephalotaxus wilsoniana</i>
Cadinene	<i>Alpinia officinarum</i> , <i>Menyanthes trifoliata</i> , <i>Piper cubeba</i> , <i>Podocarpus macrophyllus</i> , <i>Solidago canadensis</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i> , <i>Zanthoxylum bungeanum</i>
Caffeic acid	<i>Ajuga bracteosa</i> , <i>Azolla imbricata</i> , <i>C. albescens</i> , <i>C. brevicaule</i> , <i>C. littorale</i> , <i>C. maakii</i> , <i>C. segetum</i> , <i>C. setosum</i> , <i>C. vlassovianum</i> , <i>Convolvulus arvensis</i> , <i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i> , <i>Cucumis sativus</i> , <i>Elaeagnus pungens</i> , <i>E. umbellata</i> , <i>Fagopyrum esculentum</i> , <i>F. sagittatum</i> , <i>Impatiens balsamina</i> , <i>I. noli-tangere</i> , <i>I. textori</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i> , <i>Matteuccia struthiopteris</i> , <i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i> , <i>Polygonum aviculare</i> , <i>P. lapidosa</i> , <i>P. manshuriensis</i> , <i>P. vivipara</i> , <i>P. bistorta</i> , <i>Prunella vulgaris</i> , <i>Solidago dahurica</i> , <i>S. pacifica</i> , <i>S. virgaurea</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i> , <i>Viburnum sargentii</i> , <i>Xanthium chinense</i> , <i>X. japonicum</i> , <i>X. mongolicum</i> , <i>X. sibiricum</i> , <i>X. strumarium</i>
Caffeine	<i>Thea assamica</i> , <i>T. bohea</i> , <i>T. cantoniensis</i> , <i>T. chinensis</i> , <i>T. cochinchinensis</i> , <i>T. sinensis</i> , <i>T. viridis</i>
Cajuputol	<i>Melaleuca leucadendra</i>
Calamene	<i>Aconitium deinorrtuzum</i> , <i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i>
Calamenol	<i>Aconitium deinorrtuzum</i>
Calamenone	<i>Aconitium deinorrtuzum</i>
Calcium	<i>Duchesnea indica</i> , <i>Laminaria angusta</i> , <i>L. cichorioides</i> , <i>L. japonica</i> , <i>L. longipedalis</i> , <i>L. religiosa</i> , <i>Oxalis</i> <i>corriculaza</i> , <i>O. corymbosa</i> , <i>Phyllostachys bambusoide</i> , <i>P. nigra</i> , <i>Portulaca pilosa</i>
Calcium malate	<i>Euphorbia coraroides</i> , <i>E. lasiocaula</i> , <i>E. lunulata</i> , <i>E. pallasii</i> , <i>E. pekinensis</i> , <i>E. sampsoni</i> , <i>E. sieboldiana</i>
Calcium oxalate	<i>Acanthopanax gracilistylus</i> , <i>A. spinosum</i> , <i>Achyranthes japonica</i> , <i>Curculigo capitulata</i> , <i>C. ensifolia</i> , <i>C. malabarica</i> , <i>C. orchiodes</i> , <i>C. stams</i> , <i>Euphorbia coraroides</i> , <i>E. lasiocaula</i> , <i>E. lunulata</i> , <i>E. pallasii</i> , <i>E. pekinensis</i> , <i>E. sampsoni</i> , <i>E. sieboldiana</i> , <i>Sesamum indicum</i>

Calechin	<i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i>
Calenduline	<i>Calendula officinalis</i>
Camelliagenins	<i>Camellia japonica</i>
Camellin	<i>Camellia japonica</i>
Campesterol	<i>Aleurites fordii</i> , <i>Arundinaria graminifolia</i> , <i>Cuscuta chinensis</i> , <i>C. europaea</i> , <i>C. japonica</i> , <i>C. lupuliformis</i> , <i>Dioscorea bulbifera</i> , <i>Lindera obtusiloba</i> , <i>Linum stelleroides</i> , <i>L. usitatissimum</i> , <i>Matteuccia struthiopteris</i> , <i>Rehmannia chinensis</i> , <i>R. glutinosa</i> , <i>Rubus coreanus</i> , <i>R. crataegifolius</i> , <i>R. matsumuranus</i> , <i>R. saxatilis</i> , <i>Schizonepeta multifida</i> , <i>S. tenuifolia</i> , <i>Syzygium aromaticum</i> , <i>Tamarindus indicus</i>
Camphene	<i>Anethum graveoleus</i> , <i>Aucklandia costus</i> , <i>A. lappa</i> , <i>Cunninghamia lanceolata</i> , <i>Curcuma longa</i> , <i>C. pallida</i> , <i>C. phaeocoulis</i> , <i>Daucus carota</i> , <i>Dryobalanops aromatica</i> , <i>D. camphora</i> , <i>Elettaria cardamomum</i> , <i>Hedychium coronarium</i> , <i>Ledum palustre</i> , <i>Lindera glauca</i> , <i>Liquidambar acerifolia</i> , <i>L. formosana</i> , <i>L. maximowiczii</i> , <i>Piper cubeba</i> , <i>Podocarpus macrophyllus</i> , <i>Poncirus trifoliata</i> , <i>Thymus vulgaris</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i> , <i>Vitex nequundo</i> , <i>V. trifolia</i> , <i>V. rotundifolia</i> , <i>Zingiber officinale</i>
Campherene	<i>Myristica fragrans</i>
Camphol	<i>Euphorbia humifusa</i> , <i>E. hirta</i>
Camphor	<i>Artemisia gmelini</i> , <i>Blumea balsumifera</i> , <i>B. lacera</i> , <i>Chrysanthemum jucundum</i> , <i>C. koraiense</i> , <i>C. morifolium</i> , <i>C. sinense</i> , <i>Curcuma longa</i> , <i>C. pallida</i> , <i>C. phaeocoulis</i> , <i>Kaempferia galanga</i>
Camphore	<i>Artemisia argyi</i> , <i>A. halodendron</i> , <i>A. igniaria</i> , <i>A. indica</i> , <i>A. integrifolia</i> , <i>A. japonica</i> , <i>A. keiskeana</i> , <i>A. lagocephala</i> , <i>A. lavandulaefolia</i> , <i>A. scoparia</i> , <i>A. selengensis</i> , <i>A. sieversiana</i> , <i>A. vulgarts</i> , <i>Chrysanthemum boreale</i> , <i>C. indicum</i> , <i>C. lavandulaefolium</i> , <i>C. procumbens</i> , <i>C. tripartium</i>
Camphorm citral	<i>Elettaria cardamomum</i>
Camptothecin	<i>Camptotheca acuminata</i>
Canaline	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Canavalia gibberellin I	<i>Canavalia gladiata</i> , <i>C. ensiformis</i>
Canavalia gibberellin II	<i>Canavalia gladiata</i> , <i>C. ensiformis</i>
Canavaline	<i>Canavalia gladiata</i> , <i>C. ensiformis</i>
Canavanine	<i>Astragalus complanatus</i> , <i>A. henyri</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i> , <i>A. chinensis</i> , <i>Canavalia gladiata</i> , <i>C. ensiformis</i>
Candicine	<i>Phellodendron amurense</i> , <i>P. chinensis</i>

Component	Source
Canescein	<i>Erysimum amurense</i> , <i>E. cheiranthoides</i>
Caniferyl aldehyde	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Cannabidiol	<i>Cannabis chinensis</i> , <i>C. sativa</i>
Cannabinol	<i>Cannabis chinensis</i> , <i>C. sativa</i>
Caoutchoue	<i>Artocarpus heterophyllus</i>
Capadiene	<i>Cyperus rotundus</i>
Capillanol	<i>Artemisia capillaris</i>
Capillarin	<i>Artemisia capillaris</i>
Capillene	<i>Artemisia capillaris</i>
Capillin	<i>Artemisia capillaris</i>
Capillon	<i>Artemisia capillaris</i>
Capric acid	<i>Citrullus anguria</i> , <i>C. edulis</i> , <i>C. lanatus</i> , <i>C. vulgaris</i> , <i>Lindera obtusiloba</i> , <i>Ulmus campestris</i> , <i>U. macrocarpa</i> , <i>U. pumila</i>
Capronic acid	<i>Aquilegia vulgaris</i>
Caprylic	<i>Cymbopogon citratus</i>
Capsularin	<i>Corchorus capsularis</i> , <i>C. olitorius</i>
Carbohydrates	<i>Arachis hypogaea</i> , <i>Bauhinia championi</i> , <i>B. variegata</i> , <i>B. variegata. indicum</i> , <i>Triticum vulgare</i> , <i>Urtica</i> <i>angustifolia</i> , <i>U. cannabina</i> , <i>U. cannabina</i> , <i>U. lobata</i> , <i>U. tenacissima</i> , <i>U. urens</i> , <i>U. utilis</i> , <i>Zea mays</i>
Cardiac glucoside	<i>Thalictrum foetidum</i>
Cardoside	<i>Gardenia florida</i> , <i>G. grandiflora</i> , <i>G. maruba</i> , <i>G. pictorum</i> , <i>G. radicans</i>
Carene	<i>Juniperus rigida</i> , <i>Murraya paniculata</i> , <i>Piper cubeba</i>
Carenolide	<i>Periploca sepium</i>
Carosine	<i>Catharanthus roseus</i>
Carotenes	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Aleurites moluceanu</i> , <i>Alpinia katsumadai</i> , <i>A. globosum</i> , <i>A. kumatake</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Blumea lacera</i> , <i>Daucus carota</i> , <i>Eriobotrya japonica</i> , <i>Calendula</i> <i>officinalis</i> , <i>Gnaphalium affine</i> , <i>G. arenarium</i> , <i>G. confusum</i> , <i>G. javanum</i> , <i>G. luteo-album</i> , <i>G. multiceps</i> , <i>G. ramigerum</i> , <i>G. tranzschelii</i> , <i>G. uliginosum</i> , <i>Heracleum dissectum</i> , <i>H. lanatum</i> , <i>Lycium barbarum</i> , <i>L. megistocarpum</i> , <i>L. ovatum</i> , <i>L. trewianum</i> , <i>L. turbinatum</i> , <i>Polygonum bistorta</i> , <i>Sanguisorba officinalis</i> , <i>S. grandiflora</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>Taraxacum officinale</i>

Carotenoids	<i>Cuscuta australis</i> , <i>Nealsomitra integrifoliola</i> , <i>Spiraea salicifolia</i>
Carotol	<i>Daucus carota</i>
Carpylic acid	<i>Citrullus anguria</i> , <i>C. edulis</i> , <i>C. lanatus</i> , <i>C. vulgaris</i>
Cartharmin	<i>Carthamus tinctorius</i>
Carvacrol	<i>Thymus amurensis</i> , <i>T. disjunctus</i> , <i>T. kitagawianus</i> , <i>T. komarovii</i> , <i>T. przewalskii</i> , <i>T. quinquecostatus</i> , <i>T. vulgaris</i>
Carvone	<i>Chrysanthemum boreale</i> , <i>C. indicum</i> , <i>C. lavandulaefolium</i> , <i>C. procumbens</i> , <i>C. tripartium</i> , <i>L. aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i>
Caryophyllene	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Cinnamomum zeglanicum</i> , <i>Daucus carota</i> , <i>Juniperus rigida</i> , <i>Lindera glauca</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Piper nigrum</i> , <i>Thuja koraiensis</i> , <i>T. orientalis</i> , <i>T. chinensis</i>
Caryophyllene oxide	<i>Vitex chinensis</i> , <i>V. jeguaod</i>
Cassiollin	<i>Cassia occidentalis</i> , <i>Cassia torosa</i>
Cassyfiline	<i>Cassytha filliformis</i>
Cassythidine	<i>Cassytha filliformis</i>
Cassythine	<i>Cassytha filliformis</i>
Casticin	<i>Vitex trifolia</i> , <i>V. rotundifolia</i> , <i>V. trifolia</i> , <i>V. rotundifolia</i> , <i>V. nequundo</i>
Castor oil	<i>Ricinus communis</i>
Catalpol	<i>Rehmannia chinensis</i> , <i>R. glutinosa</i> .
Catechin	<i>Cynomorium coccineum</i> , <i>C. songarium</i> , <i>Elaeagnus pungens</i> , <i>E. umbellata</i> , <i>Rosa acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i> , <i>R. multiflora</i>
Catechin derivatives	<i>Agrimonia eupatoria</i> , <i>A. pilosa</i> , <i>A. viscidula</i>
Catecholamines	<i>Portulaca oleracea</i>
Catechutanic acid	<i>Acacia cutechu</i>
Cathartic acid	<i>Picrorhiza kurroa</i>
Caudoside	<i>Strophanthus divaricatus</i>
Caudostroside	<i>Strophanthus divaricatus</i>
Cauloside	<i>Caulophyllum robustum</i>
Celastrol	<i>Tripterygium wilfordii</i>
Cellulose	<i>Quercus acutissima</i> , <i>Q. aliena</i> , <i>Q. dentata</i> , <i>Q. liaotungensis</i> , <i>Q. mongolica</i> , <i>Q. variabilis</i>

Component	Source
Celosiaol	<i>Celosia argentea</i> , <i>C. cristata</i>
Cembrene	<i>Commiphora myrrha</i>
Centaur X	<i>Conyza canadensis</i>
Cephaeline	<i>Alangium lamarckii</i>
Cephalomannine	<i>Taxus cuspidata</i> , <i>T. chinensis</i> , <i>T. yunnanensis</i>
Cephalotaxine	<i>Cephalotaxus fortunei</i> , <i>C. qinensis</i> , <i>C. oliveri</i> , <i>C. wilsoniana</i>
Cephalotaxinone	<i>Cephalotaxus fortunei</i> , <i>C. qinensis</i> , <i>C. oliveri</i> , <i>C. wilsoniana</i>
Cepharamine	<i>Stephania cepharantha</i>
Cepharanoline	<i>Stephania cepharantha</i>
Cepharanthine	<i>Stephania cepharantha</i>
Cerotic acid	<i>Ajuga bracteosa</i> , <i>Artocarpus heterophyllus</i> , <i>Plumeria rubra</i> , <i>Viola acuminata</i> , <i>V. alisoviana</i> , <i>V. collina</i> , <i>V. dissecta</i> , <i>V. mandshurica</i> , <i>V. patrini</i> , <i>V. prionantha</i> , <i>V. verecunda</i>
Cerotinic acid	<i>Ficus carica</i> , <i>Plumeria rubra</i>
Cerylalcohol	<i>Calendula officinalis</i> , <i>Chamaenerion angustifolium</i> , <i>Lactuca raddeana</i> , <i>L. indica</i> , <i>L. sativa</i>
Cerylic alcohol	<i>Taraxacum officinale</i>
Cevadine	<i>Caltha palustris</i>
Chalcone glucose	<i>Asarum europaeum</i> , <i>Glycyrrhiza pallidiflora</i> , <i>G. uralensis</i>
Chanerol	<i>Chamaenerion angustifolium</i>
Chatinine	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Chaulmoogric acid	<i>Hydnocarpus anthelmintica</i> , <i>H. castaneus</i>
Chavicine	<i>Piper nigrum</i>
Chavicol	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i>
Chebolic acid	<i>Terminalia chebula</i>
Chebulinic acid	<i>Phyllanthus emblica</i> , <i>Terminalia chebula</i>
Chelerythrine	<i>Chelidonium album</i> , <i>C. hybridum</i> , <i>C. majus</i> , <i>C. serotinum</i> , <i>Macleaya cordata</i>
Chelidocystatin	<i>Chelidonium album</i> , <i>C. hybridum</i> , <i>C. majus</i> , <i>C. serotinum</i>
Chelidonine	<i>Chelidonium album</i> , <i>C. hybridum</i> , <i>C. majus</i> , <i>C. serotinum</i>
Chelilutine	<i>Macleaya cordata</i>

Chelirubine	<i>Macleaya cordata</i>
Chikusetsa saponin II	<i>Panax japonicum</i>
Chikusetsa saponin IV	<i>Panax japonicum</i>
Chimaphilin	<i>Chimaphila umbellata</i> , <i>Pyrola decorata</i> , <i>P. japonica</i> , <i>P. incarnata</i> , <i>P. renifolia</i> , <i>P. rotundifolia</i>
Chinic acid	<i>Chimaphila umbellata</i>
Chiretta	<i>Centaurium meyeri</i>
Chlogogenic acid	<i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i>
Chlorogen acid	<i>Sambucus coreana</i> , <i>S. latipinna</i> , <i>S. manshurica</i> , <i>S. peninsularis</i> , <i>S. sieboldiana</i> , <i>S. williamsii</i>
Chlorogenic acid	<i>Ajuga bracteosa</i> , <i>Campanula glomerata</i> , <i>C. punctata</i> , <i>Cirsium albescens</i> , <i>C. brevicaulis</i> , <i>C. littorale</i> , <i>C. maakii</i> , <i>C. segetum</i> , <i>C. setosum</i> , <i>C. vlassovianum</i> , <i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i> , <i>Cucumis sativus</i> , <i>Elaeagnus pungens</i> , <i>E. umbellata</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i> , <i>Lonicera acuminata</i> , <i>L. apodonta</i> , <i>L. brachypoda</i> , <i>L. japonica</i> , <i>L. confusa</i> , <i>L. hypoglauca</i> , <i>L. chinensis</i> , <i>L. flexuosa</i> , <i>L. maackii</i> , <i>Lythrum salicaria</i> , <i>Matteuccia struthiopteris</i> , <i>Polygonum aviculare</i> , <i>P. lapidosa</i> , <i>P. manshuriensis</i> , <i>P. vivipara</i> , <i>Senecio argunensis</i> , <i>S. nemorensis</i> , <i>S. scandens</i> , <i>Sesamum indicum</i> , <i>Solidago dahurica</i> , <i>S. pacifica</i> , <i>S. virgaurea</i> , <i>Urtica angustifolia</i> , <i>U. cannabina</i> , <i>U. lobata</i> , <i>U. tenacissima</i> , <i>U. urens</i> , <i>U. utilis</i> , <i>Viburnum sargentii</i>
Chlorogenin	<i>Gardenia angusta</i> , <i>G. jasminoides</i>
Chlorophenolic acid	<i>Euphorbia hirta</i>
Chloroquine	<i>Artemisia annua</i> , <i>A. apiacea</i>
Cholesterol	<i>Rubus coreanus</i> , <i>R. crataegifolius</i> , <i>R. matsumuranus</i> , <i>R. saxatilis</i>
Cholesterol	<i>Cuscuta chinensis</i> , <i>C. europaea</i> , <i>C. japonica</i> , <i>C. lupuliformis</i> , <i>Linum stelleroides</i> , <i>L. usitatissimum</i> , <i>Pedicularis resupinata</i>
Choline	<i>Caltha palustris</i> , <i>Cannabis chinensis</i> , <i>C. sativa</i> , <i>Capsella bursa-pastoris</i> , <i>Cephalanoplos segetum</i> , <i>Chrysanthemum jucundum</i> , <i>C. koraiense</i> , <i>C. morifolium</i> , <i>C. sinense</i> , <i>C. cinerariaefolium</i> , <i>Dictamnus albus</i> , <i>D. dasycarpus</i> , <i>Dioscorea opposita</i> , <i>Diospyros chinensis</i> , <i>D. costata</i> , <i>D. khaki</i> , <i>D. lotus</i> , <i>D. roxburgii</i> , <i>Firmiana simplex</i> , <i>Glycine max</i> , <i>G. soja</i> , <i>Humulus scandens</i> , <i>Hyoscyamus bohemicus</i> , <i>Menyanthes</i> <i>trifoliata</i> , <i>Pinellia ternata</i> , <i>P. tuberifera</i> , <i>Pyrethrum cinerariifolium</i> , <i>P. sinense</i> , <i>Sesamum indicum</i> , <i>Solanum</i> <i>lyratum</i> , <i>S. melongena</i> , <i>Taraxacum officinale</i> , <i>T. formosanum</i> , <i>Tetragonia tetragonoides</i> , <i>Viscum album</i>
Choline asparaginer	<i>Humulus lupulus</i>

Component	Source
Chromone	<i>Carum carvi</i> , <i>Ligusticum jeholense</i> , <i>L. pyrenacum</i> , <i>L. sinense</i> , <i>L. tenuissimum</i>
Chrysanthemaxanthin	<i>Chrysanthemum boreale</i> , <i>C. indicum</i> , <i>C. lavandulaefolium</i> , <i>C. procumbens</i> , <i>C. tripartium</i> , <i>Senecio argunensis</i> , <i>S. nemorensis</i> , <i>S. scandens</i>
Chrysanthemin	<i>Chrysanthemum jucundum</i> , <i>C. koraiense</i> , <i>C. morifolium</i> , <i>C. sinense</i>
Chrysanthinin	<i>Chrysanthemum boreale</i> , <i>C. indicum</i> , <i>C. lavandulaefolium</i> , <i>C. procumbens</i> , <i>C. tripartium</i>
Chrysarobin	<i>Cassia siamea</i>
Chryso-obtusin	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i>
Chrysophanein	<i>Rumex acetosa</i> , <i>R. acetosella</i> , <i>R. amurensis</i> , <i>R. aquaticus</i> , <i>R. gmelini</i> , <i>R. longifolius</i> , <i>R. maritimus</i> , <i>R. marschallianus</i> , <i>R. stenophyllus</i> , <i>R. thyrsiflorus</i> , <i>R. crispus</i> , <i>R. japonicus</i>
Chrysophanic acid	<i>Cassia alata</i> , <i>C. siamea</i> , <i>Duchesnea indica</i> , <i>Polygonum multifolrum</i> , <i>P. chinensis</i>
Chrysophanol	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i> , <i>Polygonum perfoliatum</i> , <i>P. tinctorium</i> , <i>P. multifolrum</i> , <i>P. chinensis</i> , <i>Rhamnus davurica</i> , <i>R. parvifolia</i> , <i>Rumex acetosa</i> , <i>R. acetosella</i> , <i>R. amurensis</i> , <i>R. aquaticus</i> , <i>R. gmelini</i> , <i>R. longifolius</i> , <i>R. maritimus</i> , <i>R. marschallianus</i> , <i>R. patientia</i> , <i>R. stenophyllus</i> , <i>R. thyrsiflorus</i> , <i>R. officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i>
Cicerose	<i>Isatis chinensis</i> , <i>I. chinensis</i> , <i>I. tinctoria</i>
Cimifugenol	<i>Cimicifuga dahurica</i> , <i>C. foetida</i> , <i>C. heracleifolia</i> , <i>C. racemosa</i> , <i>C. ussuriensis</i>
Cimigenol	<i>Cimicifuga dahurica</i> , <i>C. foetida</i> , <i>C. heracleifolia</i> , <i>C. racemosa</i> , <i>C. ussuriensis</i>
Cimitin	<i>Cimicifuga dahurica</i> , <i>C. foetida</i> , <i>C. heracleifolia</i> , <i>C. racemosa</i> , <i>C. ussuriensis</i>
Cincholic acid	<i>Adina rubella</i> , <i>A. ratemosa</i>
Cincole	<i>Alpinia oxyphylla</i>
Cineol acid	<i>Alpinia officinarum</i> , <i>Artemisia argyi</i> , <i>A. halodendron</i> , <i>A. igniaria</i> , <i>A. indica</i> , <i>A. integrifolia</i> , <i>A. japonica</i> , <i>A. keiskeana</i> , <i>A. lagocephala</i> , <i>A. lavandulaefolia</i> , <i>A. scoparia</i> , <i>A. selengensis</i> , <i>A. sieversiana</i> , <i>A. vulgarts</i> , <i>Chrysanthemum boreale</i> , <i>C. indicum</i> , <i>C. lavandulaefolium</i> , <i>C. procumbens</i> , <i>C. tripartium</i> , <i>Eucalyptus robusta</i> , <i>Kaempferia galanga</i> , <i>Magnolia biloba</i> , <i>M. denudata</i> , <i>M. discolor</i> , <i>M. liliflora</i> , <i>M. purpurea</i> , <i>Piper cubeba</i> , <i>Vitex nequundo</i>
Cineole	<i>Alpinia japonica</i> , <i>A. katsumadai</i> , <i>A. globosum</i> , <i>A. kumatake</i> , <i>Artemisia brachyloba</i> , <i>A. gmelini</i> , <i>Blumea balsumifera</i> , <i>B. lacera</i> , <i>B. balsumifera</i> , <i>Cinnamomum camphora</i> , <i>Cunninghamia lanceolata</i> , <i>Curcuma pallida</i> , <i>C. phaeocoulis</i> , <i>Elettaria cardamomum</i> , <i>Lindera glauca</i> , <i>Liquidambar acerifolia</i> , <i>L. formosana</i> , <i>L. maximowiczii</i> , <i>L. acerifolia</i> , <i>Melaleuca leucadendra</i> , <i>Menyanthes trifoliata</i>

Cinnamic acid	<i>Cinnamomum aromaticum</i> , <i>C. cassia</i> , <i>Daemonorops draco</i> , <i>Lycium chinense</i>
Cinnamic aldehyde	<i>Cinnamomum aromaticum</i> , <i>C. cassia</i> , <i>C. aromaticum</i> , <i>C. cassia</i> , <i>C. zeglanicum</i>
Cinnamyl acetate	<i>Cinnamomum aromaticum</i> , <i>C. cassia</i>
Cinnamylococaine	<i>Erythroxylum coca</i>
Cissamine	<i>Cissampelos pareira</i>
Cissampareine	<i>Cissampelos pareira</i>
Citral	<i>Alpinia katsumadai</i> , <i>A. globosum</i> , <i>A. kumatake</i> , <i>Blumea lacera</i> , <i>Citrus deliciosa</i> , <i>C. nobilis</i> , <i>C. reticulata</i> , <i>Cymbopogon citratus</i> , <i>Daucus carota</i> , <i>Litsea cubeba</i> , <i>Magnolia biloba</i> , <i>M. denudata</i> , <i>M. discolor</i> , <i>M. liliflora</i> , <i>M. purpurea</i> , <i>Rosa rugosa</i> , <i>Xanthoxylum piperitum</i> , <i>Thymus vulgaris</i> , <i>Zingiber officinale</i>
Citrene	<i>Cunninghamia lanceolata</i>
Citric acid	<i>Capsella bursa-pastoris</i> , <i>Chaenomeles japonica</i> , <i>C. sinensis</i> , <i>C. speciosa</i> , <i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i> , <i>Cydonia</i> <i>sinensis</i> , <i>Drosera anglica</i> , <i>D. burmanni</i> , <i>D. rotundifolia</i> , <i>Eriobotrya japonica</i> , <i>Lactuca raddeana</i> , <i>L. indica</i> , <i>L. sativa</i> , <i>Litchi chinensis</i> , <i>Oxalis corriculaza</i> , <i>O. corymbosa</i> , <i>Prunus domestica</i> , <i>P. glandulosa</i> , <i>P. japonica</i> , <i>P. mume</i> , <i>P. persica</i> , <i>Ribes mandshurica</i> , <i>Viburnum sargentii</i>
Citrifoliol	<i>Poncirus trifoliata</i>
Citrogellol	<i>Cymbopogon citratus</i>
Citrol	<i>Magnolia biloba</i> , <i>M. denudata</i> , <i>M. discolor</i> , <i>M. liliflora</i> , <i>M. purpurea</i> , <i>Rosa rugosa</i>
Citronellal	<i>Cymbopogon citratus</i> , <i>Elettaria cardamomum</i>
Citronellic	<i>Cymbopogon citratus</i>
Citronellol	<i>Daucus carota</i> , <i>Elettaria cardamomum</i> , <i>Juniperus rigida</i> , <i>Plumeria rubra</i> , <i>Vitex nequundo</i> , <i>Xanthoxylum</i> <i>piperitum</i> , <i>Zanthoxylum schinifolium</i>
Citrulline	<i>Citrullus anguria</i> , <i>C. edulis</i> , <i>C. lanatus</i> , <i>C. vulgaris</i> , <i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Clavatine	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i> , <i>L. annotinum</i> , <i>L. cernum</i> , <i>L. compianatum</i>
Clavatoxine	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Clavoloninine	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Clematoside A	<i>Clematis intricata</i> , <i>C. mandshurica</i>
Cleomin	<i>Cleome spinosa</i> , <i>C. gynandra</i> , <i>C. viscosa</i>
Clerodendrin	<i>Clerodendrum trichotomum</i> , <i>C. spicatus</i>

Component	Source
Clerodolone	<i>Clerodendrum trichotomum</i> , <i>C. spicatus</i>
Clerosterol	<i>Clerodendrum fragrans</i>
Clividine	<i>Clivia miniata</i>
Clovene	<i>Zanthaxylum bungeanum</i>
Cnidiadin	<i>Cnidium monnieri</i>
Cnidilide	<i>Ligusticum chuanziang</i>
Cnidimine	<i>Cnidium monnieri</i>
Cocculolidine	<i>Cocculus laurifolius</i> , <i>C. sarmentosus</i> , <i>C. trilobus</i>
Coclobine	<i>Cocculus laurifolius</i> , <i>C. sarmentosus</i> , <i>C. trilobus</i>
Codeine	<i>Papaver somniferum</i>
Coixenolide	<i>Coix agrestis</i> , <i>C. chinensis</i> , <i>C. lachryma</i>
Coixol	<i>Coix agrestis</i> , <i>C. chinensis</i> , <i>C. lachryma</i>
Colchicine	<i>Iphigenia indica</i> , <i>Lilium brownii</i> , <i>L. concolor</i> , <i>L. dauricum</i> , <i>L. distichum</i> , <i>L. japonicum</i> , <i>L. lancifolium</i> , <i>L. pumilum</i> , <i>Tulipa edulis</i> , <i>T. gesneriana</i>
Colchicine amide	<i>Iphigenia indica</i>
Columbamine	<i>Coptis chinensis</i> , <i>C. japonica</i> , <i>C. teeta</i> , <i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtschaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i>
Columbianetin	<i>Cnidium monnieri</i>
Comarinic acid- β -glucoside	<i>Hierochloe odorata</i>
Commelin	<i>Commelina communis</i>
Complanatine	<i>Lycopodium annotinum</i> , <i>L. cernum</i> , <i>L. compianatum</i>
Condensed tannin	<i>Leucaena leucocephala</i>
Condurangin	<i>Hoya carnos</i>
Confertifolin	<i>Persicaria hydropiper</i>
Coniferyl alcohol	<i>Blumea lacera</i>
Coniferyl cinnamate	<i>Styrax tonkinensis</i> , <i>S. benzoin</i>
Convallamarin	<i>Convallaria keiskei</i> , <i>Polygonatum chinense</i> , <i>P. cirrhifolium</i> , <i>P. macropodium</i> , <i>P. officinale</i> , <i>P. sibiricum</i> , <i>P. stenophyllum</i> , <i>P. odoratum</i> , <i>P. vulgare</i>

Convallarin	<i>Polygonatum chinense</i> , <i>P. cirrhifolium</i> , <i>P. macropodium</i> , <i>P. officinale</i> , <i>P. sibiricum</i> , <i>P. stenophyllum</i> , <i>P. odoratum</i> , <i>P. vulgare</i>
Convallatoxin	<i>Adonis chrysocyathus</i> , <i>A. brevistyla</i> , <i>A. vernalis</i> , <i>Antiaris toxicaris</i> , <i>Convallaria keiskei</i>
Convallatoxol	<i>Convallaria keiskei</i>
Convalloside	<i>Convallaria keiskei</i>
Copaene	<i>Artemisia lactiflora</i>
Coptisine	<i>Chelidonium album</i> , <i>C. hybridum</i> , <i>C. majus</i> , <i>C. serotinum</i> , <i>Coptis chinensis</i> , <i>C. japonica</i> , <i>C. teeta</i> , <i>Corydalis</i> <i>ambigua</i> , <i>C. repens</i> , <i>C. turtchaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i> , <i>C. incisa</i> , <i>C. bungeana</i> , <i>Macleaya</i> <i>cordata</i> , <i>Papaver amurense</i> , <i>P. nudicaule</i> , <i>P. radicatum</i> , <i>T. aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosus</i> , <i>T. thunbergii</i>
Corchorin	<i>Corchorus capsularis</i> , <i>C. olitorius</i>
Corchoritin	<i>Corchorus capsularis</i> , <i>C. olitorius</i>
Corchoroside A	<i>Adonis chrysocyathus</i> , <i>A. brevistyla</i> , <i>A. vernalis</i> , <i>Corchorus olitorius</i> , <i>Erysimum amurense</i> , <i>E. cheiranthoides</i>
Corchotoxin	<i>Corchorus capsularis</i> , <i>C. olitorius</i>
Cordycepic acid	<i>Veronica linariaefolia</i>
Cordycepin	<i>Cordyceps sinensis</i>
Coreximine	<i>Corydalis incisa</i> , <i>C. bungeana</i>
Coriandrol	<i>Coriandrum sativum</i>
Corilagin	<i>Sepium sebiferum</i> , <i>S. discolor</i>
Cornigerine	<i>Iphigenia indica</i>
Cornin	<i>Cornus officinalis</i> , <i>Macrocarpium officinalis</i>
Corosolic acid	<i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i>
Corticosteroids	<i>Costus speciosus</i>
Corycavine	<i>Corydalis incisa</i> , <i>C. bungeana</i>
Corydalamine	<i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtchaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i>
Corydalis	<i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtchaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i>
Corydamine	<i>Corydalis incisa</i> , <i>C. bungeana</i>
Coryfolin	<i>Psoralea corylifolia</i>
Corylifolinin	<i>Psoralea corylifolia</i>

Component	Source
Corynantheine	<i>Uncaria hirsuta</i> , <i>U. rhynchophylla</i>
Corynoline	<i>Corydalis incisa</i> , <i>C. bungeana</i>
Corynoloxin	<i>Corydalis incisa</i> , <i>C. bungeana</i>
Corynoxine	<i>Uncaria hirsuta</i> , <i>U. rhynchophylla</i>
Cosin	<i>Astragalus complanatus</i> , <i>A. henryi</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i>
Cosmosiin	<i>Agrimonia eupatoria</i> , <i>A. pilosa</i> , <i>A. viscidula</i> , <i>Chrysanthemum jucundum</i> , <i>C. koraiense</i> , <i>C. morifolium</i> , <i>C. sinense</i>
Costene	<i>Aucklandia costus</i> , <i>A. lappa</i>
Costol	<i>Aucklandia costus</i> , <i>A. lappa</i>
Costulactone	<i>Aucklandia costus</i> , <i>A. lappa</i>
Costunolide	<i>Eupatorium formosanum</i>
Coumarinic acid	<i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i>
Coumarins	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Ageratum conyzoides</i> , <i>A. houstonianum</i> , <i>Alternanthera philoxeroides</i> , <i>A. sessilis</i> , <i>Angelica pubescens</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Artemisia lactiflora</i> , <i>Astragalus complanatus</i> , <i>A. henryi</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i> , <i>Bidens tripartita</i> , <i>Coriandrum sativum</i> , <i>Carum carvi</i> , <i>C. aromaticum</i> , <i>C. cassia</i> , <i>Heracleum dissectum</i> , <i>H. lanatum</i> , <i>Hierochloe odorata</i> , <i>Ligusticum jeholense</i> , <i>L. pyrenacum</i> , <i>L. sinense</i> , <i>L. tenuissimum</i> , <i>Peucedanum formosanum</i> , <i>Polygonum bistorta</i> , <i>Rhododendron mucronatum</i> , <i>Sanguisorba officinalis</i> , <i>S. grandiflora</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>S. chinensis</i> , <i>S. baicalensis</i> , <i>S. japonica</i> , <i>Taraxacum officinale</i>
Coumaroylquinic acid	<i>Campanula glomerata</i> , <i>C. punctata</i>
Coumesterol	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Crataegol acid	<i>Syzygium aromaticum</i>
Crataegolic acid	<i>Chamaenerion angustifolium</i> , <i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i> , <i>Psidium guajava</i>
Crocetin	<i>Crocus sativus</i>
Crocetin di-glucose ester	<i>Crocus sativus</i>
Crocetin geniobiose glucose ester	<i>Crocus sativus</i>

Crocin	<i>Crocus sativus</i> , <i>Croton cascarilloides</i> , <i>C. tiglium</i>
Croton resin	<i>Croton cascarilloides</i> , <i>C. tiglium</i>
Crotonic acid	<i>Croton cascarilloides</i> , <i>C. tiglium</i>
Crotonoside	<i>Croton cascarilloides</i> , <i>C. tiglium</i>
Crybulbine	<i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtschaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i>
Cryptone	<i>Piper nigrum</i>
Cryptopine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Cryptotaenen	<i>Cryptotaenia japonica</i> , <i>C. canadensis</i>
Cryptotanshinone	<i>Salvia miltiorrhiza</i>
Cryptoxanthin	<i>Hippophae rhamnoides</i> , <i>Physalis alkekengi</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Crytomeridiol	<i>Magnolia hypoleuca</i> , <i>M. officinalis</i> , <i>M. japonica</i>
Crytoxanthin	<i>Eriobotrya japonica</i>
Cubebin	<i>Piper cubeba</i>
Cucurbitacin B	<i>Cucumis melo</i> , <i>Neoalsomitra integrifoliola</i>
Cucurbitacin E	<i>Cucumis melo</i>
Cucurbitacins	<i>Anagalis arvensis</i> , <i>Citrullus anguria</i> , <i>C. edulis</i> , <i>C. lanatus</i> , <i>C. vulgaris</i> , <i>Cucumis sativus</i>
Cucurbitine	<i>Cucurbita moschata</i> , <i>C. pepo</i>
Cuercetin	<i>Fagopyrum esculentum</i> , <i>F. sagittatum</i>
Cumaldehyde	<i>Cinnamomum camphora</i>
Cumaric acid	<i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i>
Cumarin	<i>Eupatorium chinense</i> , <i>E. lindleyanum</i> , <i>E. japonicum</i>
Cumic alcohol	<i>Zanthoxylum bungeanum</i>
Cuminic aldehyde	<i>Cinnamomum zeglanicum</i>
Cumulene	<i>Conyza canadensis</i>
Curcasin	<i>Jatropha gossypifolia</i> , <i>J. curcas</i>
Curcin	<i>Jatropha gossypifolia</i> , <i>J. curcas</i>
Curcolone	<i>Curcuma longa</i> , <i>C. zedoaria</i> , <i>C. aromatica</i> , <i>C. kwangsiensis</i>
Curcumin	<i>Curcuma longa</i> , <i>C. zedoaria</i> , <i>C. aromatica</i> , <i>C. kwangsiensis</i> , <i>C. pallida</i> , <i>C. phaeocoulis</i>
Curcuminoids diferuloylmethane	<i>Zingiber zerumbet</i>
Curcumol	<i>Curcuma longa</i>

Component	Source
Curdione	<i>Curcuma zedoaria</i> , <i>C. aromatica</i> , <i>C. kwangsiensis</i> , <i>C. longa</i>
Curmarin	<i>Curcuma longa</i>
Curzenene	<i>Curcuma zedoaria</i> , <i>C. aromatica</i> , <i>C. kwangsiensis</i> , <i>C. longa</i>
Curzerenone	<i>Curcuma zedoaria</i> , <i>C. aromatica</i> , <i>C. kwangsiensis</i>
Cuscutalin	<i>Cuscuta chinensis</i> , <i>C. europaea</i> , <i>C. japonica</i> , <i>C. lupuliformis</i>
Cuscutin	<i>Cuscuta chinensis</i> , <i>C. europaea</i> , <i>C. japonica</i> , <i>C. lupuliformis</i>
Custeodysine	<i>Osmunda japonica</i>
Cyandidin-3-sophoroside	<i>Hibiscus rosa-sinensis</i> , <i>H. rhombifolius</i>
Cyanic acid	<i>Nandina domestica</i>
Cyanidin	<i>Fagopyrum esculentum</i> , <i>F. sagittatum</i> , <i>Parthenocissus tricuspidata</i> , <i>Perilla frutescens</i> , <i>P. ocymoides</i> , <i>P. polystachya</i> , <i>P. arguta</i> , <i>Prunella vulgaris</i>
Cyanidin-3-gentiobioside	<i>Solidago dahurica</i> , <i>S. pacifica</i> , <i>S. virgaurea</i>
Cyanidin-3-glucoside	<i>Solidago dahurica</i> , <i>S. pacifica</i> , <i>S. virgaurea</i>
Cyanidin-3-monogalactoside	<i>Lythrum salicaria</i>
Cyanidin-3-rutinoside	<i>Campsis adrepens</i> , <i>C. chinensis</i> , <i>C. grandiflora</i>
Cyanidin diglycoside	<i>Tagetes patula</i>
Cyanidin rhamno-glucoside	<i>Syzygium cuminii</i>
Cyanin	<i>Rosa rugosa</i>
Cyanogenic glucoside	<i>Ageratum conyzoides</i> , <i>A. houstonianum</i> , <i>Flagellaria indica</i>
Cyasterone	<i>Trillium camschatcense</i>
Cyclanoline	<i>Aristolochia debilis</i> , <i>Stephania japonica</i> , <i>S. tetrandraq</i> , <i>S. cepharantha</i>
Cycloarternol	<i>Abrus precatorius</i> , <i>Euphorbia antiquorum</i>
Cycloastrangenol	<i>Astragalus complanatus</i> , <i>A. henyri</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i>
Cycloencalenol	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Cyclomonerviol	<i>Nervilia purpurea</i>
Cyclomulberrochromene	<i>Morus alba</i> , <i>M. constantinopolitana</i> , <i>M. indica</i>
Cyclonervilol	<i>Nervilia purpurea</i>

Cyclonerviol	<i>Nervilia purpurea</i>
Cycloprotobuxamines	<i>Buxus microphylla</i>
Cycloprotobuxines	<i>Buxus harlandii</i> , <i>B. microphylla</i>
Cycloshikonin	<i>Lithospermum erythrorhizon</i> , <i>L. officinalis</i>
Cyclovivobuxine C	<i>Buxus microphylla</i>
Cyclovivobuxine D	<i>Buxus harlandii</i> , <i>B. microphylla</i>
Cylindrin	<i>Imperata arundinaceae</i> , <i>I. cylindrica</i> , <i>Lophatherum gracile</i>
Cymarin	<i>Apocynum venetum</i>
Cymarol	<i>Adonis chrysocyathus</i> , <i>A. brevistyla</i> , <i>A. vernalis</i>
Cymbopogonol	<i>Cymbopogon citratus</i>
Cymene	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Coriandrum sativum</i> , <i>Myristica fragrans</i>
Cynanchin	<i>Cynanchum atratum</i> , <i>C. auriculatum</i>
Cynanchocerin	<i>Cynanchum atratum</i> , <i>C. auriculatum</i>
Cynanchol	<i>Cynanchum atratum</i> , <i>C. auriculatum</i>
Cynarin	<i>Senecio argunensis</i> , <i>S. nemorensis</i> , <i>S. scandens</i>
Cyperoone	<i>Cyperus rotundus</i>
Cyrtomin	<i>Cyrtomium falcatum</i>
Cysteic acid	<i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Cysteine	<i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Cystine	<i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Cytisine	<i>Sophora tomatosa</i> , <i>S. flavescens</i> , <i>S. alopecuroides</i>
Cytochrome C	<i>Ricinus communis</i>
Cytokinin	<i>Ginkgo biloba</i>
d-abscisin	<i>Dioscorea batatas</i>
d-apiose	<i>Lemnaphyllum microphyllum</i>
d-backuchiol	<i>Psoralea corylifolia</i>
d-borneol	<i>Amomum cardamomum</i> , <i>A. globosum</i> , <i>A. tsao-ko</i> , <i>A. villosum</i> , <i>A. xanthioides</i> , <i>Zingiber officinale</i>
d-camphor	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>A. cardamomum</i> , <i>A. globosum</i> , <i>A. tsao-ko</i> , <i>A. villosum</i> , <i>A. xanthioides</i> , <i>Aconitium deinortuzum</i> , <i>Chenopodium ambrosioides</i> , <i>Cinnamomum camphora</i> , <i>Prunella vulgaris</i>
d-carvone	<i>Anethum graveoleus</i> , <i>Carum carvi</i>

Component	Source
d-catechin	<i>Acacia catechu</i> , <i>C. cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i> , <i>Potentilla bifurca</i> , <i>P. chinensis</i> , <i>P. discolor</i> , <i>P. fragariodes</i> , <i>P. freyaiana</i> , <i>P. kleiniana</i>
d-catechol	<i>Camellia japonica</i> , <i>Polygonum aviculare</i> , <i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>
d-corydaline	<i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtchaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i>
d-fenchone	<i>Foeniculum officinale</i> , <i>F. vulgare</i> , <i>Prunella vulgaris</i>
d-fructose	<i>Sagittardia sagittifolia</i>
d-galactose	<i>Sagittardia sagittifolia</i> , <i>Sesbinia javanica</i>
d-galacturonic acid	<i>Malva chinensis</i> , <i>M. pulchella</i> , <i>M. verticillata</i> , <i>M. sylvestris</i> , <i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri</i> , <i>P. major</i>
d-galocatechol	<i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>
d-glucaric acid	<i>Ginkgo biloba</i>
d-glucose	<i>Bupleurum chinense</i> , <i>B. falcatum</i> , <i>B. scorzoneraefolium</i> , <i>Selaginella involvens</i> , <i>S. doederleinii</i> , <i>Solanum</i> <i>incanum</i>
d-guereitol	<i>Cissampelos pareira</i>
d-isochondrodendrine	<i>Cissampelos pareira</i>
d-limonene	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Carum carvi</i> , <i>Elettaria cardamomum</i> , <i>Schizonepeta multifida</i> , <i>S. tenuifolia</i> , <i>Tagetes erecta</i>
d-lupaine	<i>Lupinus luteus</i>
d-mannitol	<i>Ailanthus altissima</i> , <i>Cordyceps sinensis</i>
d-mannose	<i>Sesbinia javanica</i>
d-matine	<i>Sophora flavescens</i> , <i>S. alopecuroides</i>
d-menthone	<i>Schizonepeta multifida</i> , <i>S. tenuifolia</i>
d-N-methylpseudoephedrine	<i>Ephedra distachya</i> , <i>E. equisetina</i> , <i>E. intermedia</i> , <i>E. monosperma</i> , <i>E. sinica</i>
d-oxymatine	<i>Sophora flavescens</i> , <i>S. alopecuroides</i>
d-pinene	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i>
d-pseudoephedrinem	<i>Ephedra distachya</i> , <i>E. equisetina</i> , <i>E. intermedia</i> , <i>E. monosperma</i> , <i>E. sinica</i>
d-raffinose	<i>Sagittardia sagittifolia</i>
d-sesameine	<i>Acanthopanax giraldii</i>
d-sophoranol	<i>Sophora flavescens</i> , <i>S. alopecuroides</i>

d-stachyose	<i>Sagittardia sagittifolia</i>
d-terpineol	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
d-tetrahydropalmitine	<i>Corydalis decumbens</i>
d-tetrandrine	<i>Stephania tetrandra</i>
d-verbascose	<i>Sagittardia sagittifolia</i>
d-xylose	<i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri.</i> , <i>P. major</i>
Daechu alkaloids	<i>Ziziphus jujuba</i> , <i>Z. spinosa</i>
Daidzein	<i>Glycine max</i> , <i>G. soja</i> , <i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i> , <i>Pueraria lobata</i> , <i>P. pseudo-hirsuta</i> , <i>Sophora subprostrata</i> , <i>Trifolium pratense</i> , <i>T. repens</i>
Daidzin	<i>Pueraria lobata</i> , <i>P. pseudo-hirsuta</i>
Daphnetin	<i>Daphne giraldii</i> , <i>D. gurakduu</i> , <i>D. retusa</i> , <i>D. tangutica</i> , <i>D. koreana</i> , <i>Euphorbia lathyrus</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i> , <i>Wikstroemia indica</i>
Daphnoretin	<i>Boeninghausenia albiflora</i>
Daturodiol	<i>Datura alba</i> , <i>D. fastuosa</i> , <i>D. innoxia</i> , <i>D. metel</i> , <i>D. stramonium</i> , <i>D. tatula</i>
Daturolone	<i>Datura alba</i> , <i>D. fastuosa</i> , <i>D. innoxia</i> , <i>D. metel</i> , <i>D. stramonium</i> , <i>D. tatula</i>
Daucine	<i>Daucus carota</i>
Daucol	<i>Daucus carota</i>
Daucosterin	<i>Acanthopanax sessiliflorus</i>
Daucosterol	<i>Acanthopanax sessiliflorus</i> , <i>Adenophora triphylla</i> , <i>A. verticillata</i> , <i>Cynomorium coccineum</i> , <i>C. songarium</i> , <i>Daucus carota</i>
Dauricine	<i>Menispermum dauricum</i>
Dauricinoline	<i>Menispermum dauricum</i>
Daurinoline	<i>Menispermum dauricum</i>
Deacetylfawcetine	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Deacylcynanchogenin	<i>Cynanchum paniculatum</i>
Deacylmetaplexigenin	<i>Cynanchum paniculatum</i>
Deaspidin	<i>Dryopteris laeta</i> , <i>D. filix-mas</i>
Debilic acid	<i>Aristolochia debilis</i>
Decalactone	<i>Prunus persica</i>
Decanal	<i>Coriandrum sativum</i> , <i>Cymbopogon citratus</i>

Component	Source
Decanol	<i>Coriandrum sativum</i>
Decanoylacetaldehyde	<i>Houttynia cordata</i>
Decurside	<i>Angelica decursiva</i>
Decursidin	<i>Angelica decursiva</i> , <i>Peucedanum japonicum</i> , <i>P. praeruptorum</i> , <i>P. rubricaulis</i>
Decursin	<i>Angelica decursiva</i>
Decussatin	<i>Swertia pseudochinensis</i>
Decylic aldehyde	<i>Coriandrum sativum</i>
Degueline	<i>Tephrosia purpurea</i>
Dehydroandrographolide	<i>Andrographis paniculata</i>
Dehydrocorydaline	<i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtchaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i>
Dehydrocorydalmine	<i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtchaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i>
Dehydroevodiamine	<i>Evodia rutaecarpa</i>
Dehydromatricaria	<i>Erigeron canadensis</i> , <i>E. annuus</i>
Dehydromatricaria ester	<i>Conyza canadensis</i>
Dehydrosilybin	<i>Silybum marianum</i>
Delphinidin	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i> , <i>Prunella vulgaris</i>
Delphinidin-3-monoglucoside	<i>Solanum lyratum</i> , <i>S. melongena</i>
Delphinidin-3,5-diglucoside	<i>Aquilegia vulgaris</i>
Delta-3-carene	<i>Vitex negundo</i>
Demethyl cephalotaxine	<i>Cephalotaxus wilsoniana</i>
Demethyl-coclaurine	<i>Nelumbium nelumbo</i>
Demethyl-tubulosine	<i>Alangium lamarckii</i>
Demethylcephaeline	<i>Alangium lamarckii</i>
Demethylcephalotaxine	<i>Cephalotaxus fortunei</i> , <i>C. qinensis</i> , <i>C. oliveri</i>
Demethylpsychotrin	<i>Alangium lamarckii</i>
Demethylwedolactone	<i>Eclipta erecta</i>
Dencichine	<i>Panax notoginseng</i>
Dendrobine	<i>Dendrobium nobile</i>
Deoxyandrographolide	<i>Andrographis paniculata</i>

Deoxyelephantopin	<i>Elephantopus molis</i>
Deoxypodophyllotoxin	<i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Dysosma pleiantha</i>
Deoxysantalol	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Deoxyschizandrin	<i>Schisandra chinensis</i>
Deoxytubulosine	<i>Alangium lamarckii</i>
Dephenyl methane-2-carboxylic acid	<i>Conyza canadensis</i>
des-O-methyl-licaraine	<i>Epimedium brevicorum</i> , <i>E. koreanum</i> , <i>E. macranthum</i>
Desacetylasperuloside	<i>Oldenlandia diffusa</i>
Desacetylmatricarin	<i>Achillea alpina</i> , <i>A. millefolium</i>
Desoxypodophyllotoxin	<i>Podophyllum peltatum</i> , <i>P. pleianthum</i>
Destrose	<i>Campsis adrepens</i> , <i>C. chinensis</i> , <i>C. grandiflora</i> , <i>Hordeum vulgare</i>
di-p-coumaroylmethane	<i>Zingiber zerumbet</i>
Diacetate	<i>Araucaria cunninghamii</i>
Diacetyl-atractylodiol	<i>Atractylis chinensis</i> , <i>A. lancea</i> , <i>A. lyrata</i> , <i>A. ovata</i>
Diadzin-4,7-diglucoside	<i>Pueraria lobata</i> , <i>P. pseudo-hirsuta</i>
Diallyl disulfide	<i>Allium victorialis</i>
Diallyl sulfide	<i>Allium chinense</i> , <i>A. odorum</i> , <i>A. sativum</i> , <i>A. tuberosum</i> , <i>A. uliginosum</i>
Dianthrone glucoside	<i>Cassia angustifolia</i>
Dianthronic heteroside	<i>Cassia occidentalis</i> , <i>C. torosa</i>
Dianthus saponin	<i>Dianthus barbatus</i> , <i>D. superbus</i> , <i>D. oreadam</i>
Dibilone	<i>Aristolochia debilis</i>
Dicaffeoxylquinic acid	<i>Xanthium chinense</i> , <i>X. japonicum</i> , <i>X. mongolicum</i> , <i>X. sibiricum</i> , <i>X. strumarium</i>
Dichrins	<i>Dichroa cyanitis</i> , <i>D. febrifuga</i> , <i>D. latifolia</i>
Dichroidine	<i>Dichroa cyanitis</i> , <i>D. febrifuga</i> , <i>D. latifolia</i>
Dichroines	<i>Dichroa cyanitis</i> , <i>D. febrifuga</i> , <i>D. latifolia</i>
Dicoumarol	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Dictamine	<i>Dictamnus albus</i> , <i>D. dasycarpus</i> , <i>Zanthoxylum ailanthoides</i> , <i>Z. schinifolium</i>
Dicumarol	<i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i>
Diethyl phthalate	<i>Oenothera javanica</i>
DiffRACTAIC acid	<i>Usnea diffracta</i> , <i>U. longissima</i>

Component	Source
Digeneaside	<i>Calloglossa lepieurii</i>
Digicirin	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Digicoside	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Digifolein	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Digipurin	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Digitonin	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Digitoxigenin	<i>Corchorus olitorius</i> , <i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Digitoxin	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Diglucoside	<i>Acanthopanax giraldii</i>
Dihydro-N-methyl-isopelletierine	<i>Sedum sarmentosum</i>
Dihydroartemisinin	<i>Artemisia annua</i> , <i>A. apiacea</i>
Dihydrobigelovin	<i>Forsythia suspensa</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i>
Dihydrocarveol	<i>Piper nigrum</i>
Dihydrocarvone	<i>Anethum graveoleus</i>
Dihydrocyclonervilol	<i>Nervilia purpurea</i>
Dihydrofoliamenthin	<i>Menyanthes trifoliata</i>
Dihydroharman	<i>Elaeagnus pungens</i> , <i>E. umbellata</i>
Dihydroisopelletierine	<i>Sedum sarmentosum</i>
Dihydrokaempterol	<i>Morus alba</i> , <i>M. constantinopolitana</i> , <i>M. indica</i>
Dihydrolycorine	<i>Lycoris radiata</i> , <i>L. longituba</i> , <i>L. aura</i>
Dihydromorin	<i>Morus alba</i> , <i>M. constantinopolitana</i> , <i>M. indica</i>
Dihydronepetalactol	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i>
Dihydronuciferine	<i>Nelumbium nuciferum</i> , <i>N. speciosum</i>
Dihydroquercetin	<i>Rhododendron mucronatum</i>
Dihydrosecurinine	<i>Securinega suffruticosa</i> , <i>S. virosa</i>
Dihydroshikonin	<i>Lithospermum erythrorhizon</i> , <i>L. officinalis</i>
Dihydrostigmast	<i>Trapa bispinosa</i>
Dihydroterpene	<i>Pittosporum tobira</i>
Dihydroxy methyl anthraquinone	<i>Morinda citrifolia</i> , <i>M. officinalis</i>

Dihydroxycoumarin	<i>Bidens tripartita</i>
Dihydroxyglutamic acid	<i>Cornus alba</i> , <i>C. kousa</i> , <i>C. macrophylla</i>
Dillapiole	<i>Anethum graveoleus</i>
Dimethoxyallylbenzene	<i>Nothosmyrnum japonicum</i>
Dimethy ether	<i>Blumea balsumifera</i>
Dimethyl thymohydroquinone	<i>Eupatorium chinense</i> , <i>E. lindleyanum</i> , <i>E. japonicum</i>
Diogenin	<i>Costus speciosus</i>
Diol	<i>Curcuma zedoaria</i> , <i>C. aromatica</i> , <i>C. kwangsiensis</i> , <i>C. longa</i>
Diosbulbin	<i>Dioscorea bulbifera</i>
Diosbulbines	<i>Dioscorea bulbifera</i>
Dioscin	<i>Dioscorea nipponica</i>
Dioscorecin	<i>Dioscorea bulbifera</i>
Dioscoretoxin	<i>Dioscorea bulbifera</i>
Diosgenin	<i>Aletris formosuna</i> , <i>A. spicata</i> , <i>Arnebia euchroma</i> , <i>Dioscorea bulbifera</i> , <i>D. opposita</i> , <i>D. nipponica</i> , <i>D. batatas</i> , <i>Solanum indicum</i> , <i>Trillium camschatcense</i>
Diosgenin glycoside	<i>Paris polyphylla</i> , <i>Paris quadrifolia</i>
Diosmetin-7-glucoside	<i>Chrysanthemum jucundum</i> , <i>C. koraiense</i> , <i>C. morifolium</i> , <i>C. sinense</i>
Diosmin	<i>Zanthaxylum nitidum</i>
Dioxybenzoic acid	<i>Althaea rosea</i>
Dioxyflavonol	<i>Alpinia officinarum</i>
Dipalmiin	<i>Typhonium giganteum</i>
Dipentene	<i>Anethum graveoleus</i> , <i>Coriandrum sativum</i> , <i>Cymbopogon citratus</i> , <i>Dryopteris crassirhizoma</i> , <i>Erigeron canadensis</i> , <i>E. annuus</i> , <i>Liquidambar acerifolia</i> , <i>L. formosana</i> , <i>L. maximowiczii</i> , <i>Melaleuca leucadendra</i> , <i>Myristica fragrans</i> , <i>Piper cubeba</i> , <i>Pyrrosia lingua</i> , <i>P. petiolosa</i> , <i>P. sheareri</i> , <i>Vitex nequundo</i>
Diploptene	<i>Dryopteris laeta</i> , <i>D. filix-mas</i>
Disinomenine	<i>Cocculus diversifolius</i> , <i>C. thunbergii</i> , <i>Menispermum dauricum</i> , <i>Sinomenium acutum</i>
Diterpenes	<i>Acanthapanax gracilistylus</i> , <i>Ginkgo biloba</i>
Diterpenoids	<i>Aralia chinensis</i> , <i>A. cordata</i> , <i>A. elata</i> , <i>Tripterygium wilfordii</i>
Divaricoside	<i>Strophanthus divaricatus</i>
dl-anabasin	<i>Alangium lamarckii</i> , <i>A. chinense</i>

Component	Source
dl-beheerine	<i>Cissampelos pareira</i>
dl-borneol	<i>Elettaria cardamomum</i>
dl-catechol	<i>Machilus thunbergii</i>
dl-curine	<i>Cissampelos pareira</i>
dl-methylisopelletierine	<i>Sedum sarmentosum</i>
dl-N-noramepavine	<i>Machilus thunbergii</i>
dl-tetrahydropalmatine	<i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtchaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i>
dl-tetrandrine	<i>Stephania hernendifolia</i>
Dodecen-4-oic acid	<i>Lindera obtusiloba</i>
Domesticine	<i>Nandina domestica</i>
Donoxime	<i>Desmodium pulehellum</i>
Dopamine	<i>Portulaca oleracea</i>
Dotriacontanol	<i>Elephantopus molis</i>
Douminidine	<i>Gelsemium sempervirens</i> , <i>G. elegans</i>
Dracoalban	<i>Daemonorops margaritae</i>
Dracoresene	<i>Daemonorops margaritae</i>
Dracoresinotannol	<i>Daemonorops margaritae</i>
Dracorhodin	<i>Draceana graminifolia</i>
Dracorubin	<i>Draceana graminifolia</i>
Dryocrassin	<i>Dryopteris crassirhizoma</i> , <i>D. laeta</i> , <i>D. filix-mas</i>
Dulcilone	<i>Scopalia dulcis</i>
Dulciol	<i>Scopalia dulcis</i>
Dulcite	<i>Euonymus alatus</i> , <i>E. bungeanus</i> , <i>E. maackii</i>
Dulcitol	<i>Maytenus diversifolia</i> , <i>M. confertiflorus</i>
Dydimin	<i>Clinopodium chinense</i> , <i>C. polycephalum</i> , <i>C. gracile</i> , <i>C. umbrosum</i>
Ebelin lactone	<i>Hovenia dulcis</i>
Eburicoic acid	<i>Poria cocos</i>
Ecdysone	<i>Osmunda japonica</i>
Ecdysones cyasterone	<i>Ajuga bracteosa</i> , <i>A. decumbens</i> , <i>A. pygmaea</i>

Ecdysterone	<i>Achyranthes bidentata</i> , <i>A. japonica</i> , <i>Ajuga bracteosa</i> , <i>A. decumbens</i> , <i>A. pygmaea</i> , <i>Cyathula prostrate</i> , <i>Matteuccia struthiopteris</i> , <i>Osmunda japonica</i> , <i>Podocarpus macrophyllus</i> , <i>Trillium camschatcense</i>
Ecgonine	<i>Erythroxylum coca</i>
Echinocostic acid	<i>Cistanche deserticola</i>
Echinocystic acid	<i>Codonopsis lanceolata</i>
Echinopanaxene	<i>Oplopanax elatus</i>
Echinopanaxol	<i>Oplopanax elatus</i>
Echinopsine	<i>Echinops dahuricus</i> , <i>E. gmelini</i> , <i>E. grijsii</i> , <i>E. sphacrocephalus</i> , <i>E. latifollus</i>
Echitamidine	<i>Alstonia scholaris</i>
Echitamine	<i>Alstonia scholaris</i>
Ecliptine	<i>Eclipta alba</i> , <i>E. marginata</i> , <i>E. prostrata</i> , <i>E. thermalis</i> , <i>E. erecta</i>
Eicosanoic acid	<i>Tamarindus indicus</i>
Eicosenic acid	<i>Brassica alba</i> , <i>B. juncea</i>
Eikosanol	<i>Linum stelleroides</i> , <i>L. usitatissimum</i>
Eissampeline	<i>Chenopodium ambrosioides</i>
Elaeocarpid	<i>Elephantopus elatus</i> , <i>E. grandiflorus</i>
Elegic acid	<i>Punica granatam</i>
Elemene	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Artemisia lactiflora</i>
Elemicin	<i>Cymbopogon citratus</i>
Elephantin	<i>Elephantopus molis</i>
Elephantopin	<i>Elephantopus molis</i>
Eleutherosides	<i>Eleutherococcus senticosus</i>
Ellagic acid	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i> , <i>Lythrum salicaria</i> , <i>Syzygium cuminii</i> , <i>Terminalia chebula</i>
Elsholtzia ketone	<i>Elsholtzia argyi</i> , <i>E. cristata</i> , <i>E. splendens</i> , <i>E. feddei</i> , <i>E. souliei</i>
Elsholtzianic acid	<i>Elsholtzia argyi</i> , <i>E. cristata</i> , <i>E. splendens</i> , <i>E. feddei</i> , <i>E. souliei</i>
Emetine	<i>Alangium lamackii</i>
Emilsin-like enzyme	<i>Flagellaria indica</i>
Emodin	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i> , <i>Duchesnea indica</i> , <i>Polygonum multifolium</i> , <i>P. chinensis</i> , <i>P. perfoliatum</i> , <i>P. tinctorium</i> , <i>P. cuspidatum</i> , <i>Rhamnus davurica</i> , <i>R. davurica</i> , <i>R. parvifolia</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i> , <i>Rumex acetosa</i> , <i>R. acetosella</i> , <i>R. amurensis</i> , <i>R. aquaticus</i> , <i>R. gmelini</i> , <i>R. longifolius</i> , <i>R. maritimus</i> , <i>R. marschallianus</i> , <i>R. patientia</i> , <i>R. stenophyllum</i> , <i>R. thyrsoflorus</i>

Component	Source
Emodin methyl ester	<i>Polygonum multifolrum</i> , <i>P. chinensis</i>
Emodin-monomethylether	<i>Rumex patientia</i>
Entageric acid	<i>Entada phaseoloides</i>
Ephedrine	<i>Ephedra distachya</i> , <i>E. equisetina</i> , <i>E. intermedia</i> , <i>E. monosperma</i> , <i>E. sinica</i>
Epialisol A	<i>Alisma cordifolia</i> , <i>A. orientalis</i> , <i>A. plantago-aquatica</i> , <i>A. plantago</i>
Epibrassicasterol	<i>Nervilia purpurea</i>
Epicatechin	<i>Acacia catechu</i> , <i>Elaeagnus pungens</i> , <i>E. umbellata</i> , <i>Rosa acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i>
Epicatechin gallate	<i>Rosa acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i>
Epicephalotaxin	<i>Cephalotaxus wilsoniana</i>
Epicephalotaxine	<i>Cephalotaxus fortunei</i> , <i>C. qinensis</i> , <i>C. oliveri</i>
Epifriedelanol	<i>Syzygium cuminii</i>
Epifriedelin	<i>Clerodendrum trichotomum</i> , <i>C. spicatus</i>
Epifriedelinol	<i>Elephantopus molis</i> , <i>E. alatus</i> , <i>E. bunganus</i> , <i>E. maackii</i>
Epigallocatechin	<i>Elaeagnus glabra</i> , <i>R. acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i>
Epimedeside A	<i>Epimedium brevicorum</i> , <i>E. koreanum</i> , <i>E. macranthum</i>
Epistephanine	<i>Stephania japonica</i>
Epiwilsonine	<i>Cephalotaxus fortunei</i> , <i>C. qinensis</i> , <i>C. oliveri</i>
Epoxyquaine	<i>Cyperus rotundus</i>
Equisetonin	<i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i>
Equisetrin	<i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i>
Eremophilene	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Ergostatetraen	<i>Trapa bispinosa</i>
Ergosterol peroxide	<i>Ananas comosus</i>
Ergosterol	<i>Ganoderma lucidum</i> , <i>Lactuca raddeana</i> , <i>L. indica</i> , <i>L. sativa</i> , <i>Nervilia purpurea</i> , <i>Polyporus umbellatus</i>
Ericolin	<i>Chimaphila umbellata</i>
Erigeron	<i>Erigeron canadensis</i> , <i>E. annuus</i>
Erisin	<i>Populus alba</i> , <i>P. davidiana</i> , <i>P. tomentosa</i>
Erpinene	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>

Erucic acid	<i>Avena fatua</i> , <i>Brassica alba</i> , <i>B. juncea</i> , <i>Cardamine leucantha</i> , <i>C. lyrata</i> , <i>Erysimum amurense</i> , <i>E. cheiranthoides</i> , <i>Sinapis alba</i>
Erycbelline	<i>Erycibe henryi</i> , <i>E. aenea</i>
Erychroside	<i>Corchorus olitorius</i> , <i>Erysimum amurense</i> , <i>E. cheiranthoides</i>
Erysimoside	<i>Erysimum amurense</i> , <i>E. cheiranthoides</i>
Erysimosol	<i>Erysimum amurense</i> , <i>E. cheiranthoides</i>
Erysimotoxin	<i>Erysimum amurense</i> , <i>E. cheiranthoides</i>
Erythriside	<i>Erysimum amurense</i> , <i>E. cheiranthoides</i>
Escigenin	<i>Aesculus chinensis</i> , <i>A. hippocastanum</i>
Esculetin	<i>Euphorbia lathyrus</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i>
Esculetin dimethyl ether	<i>Zanthoxylum schinifolium</i>
Esgoside	<i>Momordica grosvenori</i>
Essential oils	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Alpinia japonica</i> , <i>A. officinarum</i> , <i>Anethum graveoleus</i> , <i>Ardisia japonica</i> , <i>Arethusa japonica</i> , <i>Artemisia brachyloba</i> , <i>A. gmelini</i> , <i>Asarum canadense</i> , <i>A. heterotropoides</i> , <i>A. sieboldii</i> , <i>Asparagus cochinenesis</i> , <i>A. falcatus</i> , <i>A. insularis</i> , <i>A. lucidus</i> , <i>A. officinalis</i> , <i>Aspidium falcatum</i> , <i>A. gmelini</i> , <i>Atractylis chinensis</i> , <i>A. lancea</i> , <i>A. lyrata</i> , <i>A. ovata</i> , <i>Atractylodes lancea</i> , <i>Bidens bipinnata</i> , <i>B. parviflora</i> , <i>Biota chinensis</i> , <i>B. orientalis</i> , <i>Bletilla hyacinthina</i> , <i>B. striata</i> , <i>Blumea balsumifera</i> , <i>Caesalpinia sappan</i> , <i>Carduus acaulis</i> , <i>C. crispus</i> , <i>C. japonicus</i> , <i>Carpesium abrotanoides</i> , <i>C. athunbergianum</i> , <i>Carum carvi</i> , <i>Celtis bungeana</i> , <i>C. sinensis</i> , <i>Centipeda minima</i> , <i>Chloranthus glubra</i> , <i>C. oldhami</i> , <i>Chrysanthemum cinerariaefolium</i> , <i>Cirsium albenscens</i> , <i>C. brevicaulis</i> , <i>C. littorale</i> , <i>C. maakii</i> , <i>C. segetum</i> , <i>C. setosum</i> , <i>C. vlassovianum</i> , <i>Commiphora myrrha</i> , <i>Conioselinum univittatum</i> , <i>Conyza canadensis</i> , <i>Cunninghamia lanceolata</i> , <i>Cymbidium hyacinthinum</i> , <i>C. striatum</i> , <i>Cymbopogon distans</i> , <i>C. goeringii</i> , <i>C. nardus</i> , <i>Cyperus rotundus</i> , <i>Dianthus barbatus</i> , <i>D. superbus</i> , <i>D. oreadam</i> , <i>Dipsacus asper</i> , <i>Dracocephalum integrifolium</i> , <i>Eclipta erecta</i> , <i>Elsholtzia argyi</i> , <i>E. cristata</i> , <i>E. splendens</i> , <i>E. feddei</i> , <i>E. souliei</i> , <i>Erigeron canadensis</i> , <i>E. annuus</i> , <i>Eriobotrya japonica</i> , <i>Eucalyptus robusta</i> , <i>Fortunella crassifolia</i> , <i>F. japonica</i> , <i>F. margarita</i> , <i>Gnaphalium affine</i> , <i>G. arenarium</i> , <i>G. confusum</i> , <i>G. javanum</i> , <i>G. luteo-album</i> , <i>G. multiceps</i> , <i>G. ramigerum</i> , <i>G. tranzschelii</i> , <i>G. uliginosum</i> , <i>Hedyotis diffusa</i> , <i>Hippophae rhamnoides</i> , <i>Houttynia cordata</i> , <i>Laggeta alata</i> , <i>Lappa communis</i> , <i>L. edulis</i> , <i>L. major</i> , <i>L. minor</i> , <i>Ledebouriella divaricata</i> , <i>Leonurus sibiricus</i> , <i>Lindera megaphylla</i> , <i>Lophanthus chinensis</i> , <i>L. rugosus</i> , <i>Lysimachia barystachys</i> , <i>L. christinae</i> , <i>L. clethroides</i> , <i>L. davurica</i> ,

Component	Source
Essential oils (<i>continued</i>)	<i>Nardostachys jatamansi</i> , <i>Nothosmyrnium japonicum</i> , <i>Notopterygium incisum</i> , <i>Oplopanax elatus</i> , <i>Patrinia scabiosaefolia</i> , <i>P. heterophylla</i> , <i>Pinus bungeana</i> , <i>P. densiflora</i> , <i>P. koraiensis</i> , <i>P. sylvestris</i> , <i>P. tabulaeformis</i> , <i>Plumeria rubra</i> , <i>Pogostemon cablin</i> , <i>Pyrethrum cinerariifolium</i> , <i>P. sinense</i> , <i>Rabdosia rubescens</i> , <i>Rhaponticum uniflorum</i> , <i>R. mucronatum</i> , <i>R. anthopogon</i> , <i>Rosa chinensis</i> , <i>R. indica</i> , <i>R. rugosa</i> , <i>Salvia plebeia</i> , <i>Sarcandra glabra</i> , <i>Schizonepeta multifida</i> , <i>S. tenuifolia</i> , <i>Scrophularia buergeriana</i> , <i>S. kakudensis</i> , <i>S. ningpoensis</i> , <i>S. oldhami</i> , <i>S. puergeriana</i> , <i>Silene jensisensis</i> , <i>Sorbus alnifolia</i> , <i>S. amurensis</i> , <i>S. pohuashanensis</i> , <i>Taraxacum officinale</i> , <i>Thlaspi arvense</i> , <i>Tilia amurensis</i> , <i>T. mandshurica</i> , <i>T. mongolica</i> , <i>Tussilago farfara</i> , <i>Verbena officinalis</i> , <i>V. oxysepalum</i> , <i>Viburnum sargentii</i> , <i>Vitex nequundo</i> , <i>V. chinensis</i> , <i>V. jeguaod</i> , <i>Xanthoxylum piperitum</i> , <i>Zanthoxylum bungeanum</i> , <i>Z. ailanthoides</i> , <i>Zingiber officinale</i> , <i>Z. zerumbet</i>
Estragol	<i>Angelica decursiva</i> , <i>Zanthoxylum schinifolium</i>
Estragole	<i>Magnolia biloba</i> , <i>M. denudata</i> , <i>M. discolor</i> , <i>M. liliflora</i> , <i>M. purpurea</i> , <i>Zanthoxylum bungeanum</i>
Ethanol	<i>Prunus persica</i>
Ether oils	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Heracleum dissectum</i> , <i>H. lanatum</i> , <i>Polygonum bistorta</i> , <i>Sanguisorba officinalis</i> , <i>S. grandiflora</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>Taraxacum officinale</i>
Ethoxychelerythrine	<i>Macleaya cordata</i>
Ethoxysanguinarine	<i>Macleaya cordata</i>
Ethyl alcohol	<i>Kaempferia galanga</i>
Ethyl beta-fructopyranoside	<i>Rosa acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i>
Ethyl ester	<i>Anredera cordifolia</i>
Etoposide	<i>Dysosma pleiantha</i>
Eucalyptol	<i>Artemisia argyi</i> , <i>A. halodendron</i> , <i>A. igniaria</i> , <i>A. indica</i> , <i>A. integrifolia</i> , <i>A. japonica</i> , <i>A. keiskeana</i> , <i>A. lagocephala</i> , <i>A. lavandulaefolia</i> , <i>A. scoparia</i> , <i>A. selengensis</i> , <i>A. sieversiana</i> , <i>A. vulgarts</i> , <i>Melaleuca leucadendra</i>
Eucalyptole	<i>Cinnamomum camphora</i>
Euchrestaflavanones	<i>Euchresta japonicum</i>
Eudesnol	<i>Atractylodes chinensis</i> , <i>A. japonica</i> , <i>A. koreana</i> , <i>A. lancen</i> , <i>A. macrocephala</i> , <i>A. ovata</i>

Eugenitin	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i>
Eugenol	<i>Alpinia officinarum</i> , <i>Cinnamomum zeggianicum</i> , <i>C. aromaticum</i> , <i>C. cassia</i> , <i>Dianthus barbatus</i> , <i>D. superbus</i> , <i>D. oreadam</i> , <i>Geum aleppicum</i> , <i>Magnolia biloba</i> , <i>M. denudata</i> , <i>M. discolor</i> , <i>M. liliflora</i> , <i>M. purpurea</i> , <i>Myristica fragrans</i> , <i>Rosa rugosa</i> , <i>R. rugosa</i> , <i>Vitex nequundo</i>
Eugianin	<i>Syzygium cuminii</i>
Eupaforin	<i>Salvia plebeia</i>
Eupaformonin	<i>Eupatorium formosanum</i>
Eupaformosanin	<i>Eupatorium formosanum</i>
Euparin	<i>Eupatorium chinense</i> , <i>E. lindleyanum</i> , <i>E. japonicum</i>
Eupatol	<i>Eupatorium odoratum</i>
Eupatolide	<i>Eupatorium formosanum</i>
Euphol	<i>Euphorbia antiquorum</i> , <i>E. lathyrus</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i>
Euphorbetin	<i>Euphorbia lathyrus</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i>
Euphorbias	<i>Euphorbia coraroides</i> , <i>E. lasiocaula</i> , <i>E. lunulata</i> , <i>E. pallasii</i> , <i>E. pekinensis</i> , <i>E. sampsoni</i> , <i>E. sieboldiana</i>
Euphorbiasteroid	<i>Euphorbia lathyrus</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i>
Euphorbine	<i>Euphorbia esula</i> , <i>E. helioscopia</i>
Euphorbol	<i>Euphorbia lathyrus</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i>
Euphorbon	<i>Euphorbia humifusa</i> , <i>E. hirta</i> , <i>E. coraroides</i> , <i>E. lasiocaula</i> , <i>E. lunulata</i> , <i>E. pallasii</i> , <i>E. pekinensis</i> , <i>E. sampsoni</i> , <i>E. sieboldiana</i>
Evocarpine	<i>Evodia rutaecarpa</i>
Evodiamine	<i>Evodia rutaecarpa</i>
Evodol	<i>Evodia rutaecarpa</i>
Eycinnuik	<i>Eucommia ulmoides</i>
Fabric	<i>Urtica angustifolia</i> , <i>U. cannabina</i> , <i>U. lobata</i> , <i>U. tenacissima</i> , <i>U. urens</i> , <i>U. utillis</i>
Fagomine	<i>Fagopyrum esculentum</i>
Fagopyrin	<i>Fagopyrum esculentum</i>
Falcarindiol	<i>Glehnia littoralis</i> , <i>Notopterygium incisum</i>
Falvins	<i>Alternanthera philoxeroides</i> , <i>A. sessilis</i>
Fangchinoline	<i>Stephania hennedifolia</i> , <i>S. tetrandraq</i>
Faradiol	<i>Tussilago farfara</i>

Component	Source
Farnesal	<i>Cymbopogon citratus</i>
Farnesene	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i>
Farnesiferols	<i>Ferula assa-foetida</i> , <i>F. bungeana</i>
Farnesol	<i>Cymbopogon citratus</i> , <i>Plumeria rubra</i>
Farreol	<i>Rhododendron mucronatum</i> , <i>R. dauricum</i>
Fat	<i>Ficus awkeotsang</i> , <i>Gnaphalium affine</i> , <i>G. arenarium</i> , <i>G. confusum</i> , <i>G. javanum</i> , <i>G. luteo-album</i> , <i>G. multiceps</i> , <i>G. ramigerum</i> , <i>G. tranzschelii</i> , <i>G. uliginosum</i> , <i>Triticum vulgare</i> , <i>Urtica angustifolia</i> , <i>U. cannabina</i> , <i>U. lobata</i> , <i>U. tenacissima</i> , <i>U. urens</i> , <i>U. utilis</i>
Fatty acids	<i>Aesculus indica</i> , <i>Cassia alata</i> , <i>Cornus walteri</i> , <i>Euonymus alatus</i> , <i>E. bungeanus</i> , <i>E. maackii</i> , <i>Geum aleppicum</i> , <i>Hippophae rhamnoides</i> , <i>Lindera glauca</i> , <i>L. communis</i> , <i>Linum stelleroides</i> , <i>L. usitatissimum</i> , <i>Magnolia grandiflora</i> , <i>Parthenocissus tricuspidata</i> , <i>Phaseolus angularis</i> , <i>P. lunatus</i> , <i>P. radiatus</i> , <i>P. vulgaris</i> , <i>Prunus padus</i> , <i>P. domestica</i> , <i>P. glandulosa</i> , <i>P. japonica</i> , <i>P. armeniaca</i> , <i>Pueraria lobata</i> , <i>P. pseudo-hirsuta</i> , <i>Sorbus alnifolia</i> , <i>S. amurensis</i> , <i>S. pohuashanensis</i> , <i>Thlaspi arvense</i> , <i>Viscum album</i>
Fatty oil	<i>Lappa communis</i> , <i>L. edulis</i> , <i>L. major</i> , <i>L. minor</i> , <i>Leonurus heterophyllus</i> , <i>L. japonicus</i> , <i>L. macranthus</i> , <i>L. mongolicus</i> , <i>L. pseudo-macranthus</i> , <i>Lygodium japonicum</i> , <i>Terminalia chebula</i>
Fawcetimine	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Fawcetine	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Febrifugin	<i>Hydrangea macrophylla</i>
Fenchone	<i>Blumea lacera</i> , <i>Thuja koraiensis</i> , <i>T. orientalis</i> , <i>T. chinensis</i>
Feriol	<i>Rhododendron dauricum</i>
Fernadiene	<i>Adiantum boreale</i> , <i>A. capillus-junonis</i> , <i>A. pedatum</i> , <i>A. flabellulatum</i>
Fernene	<i>Adiantum boreale</i> , <i>A. capillus-junonis</i> , <i>A. pedatum</i> , <i>A. flabellulatum</i> , <i>Dryopteris crassirhizoma</i>
Fernenol	<i>Imperata arundinaceae</i> , <i>I. cylindrica</i>
Ferulic	<i>Matteuccia struthiopteris</i>
Ferulic acid	<i>Angelica polymorpha</i> , <i>A. sinensis</i> , <i>Cimicifuga dahurica</i> , <i>C. foetida</i> , <i>C. heracleifolia</i> , <i>C. racemosa</i> , <i>C. ussuriensis</i> , <i>Ferula assa-foetida</i> , <i>F. bungeana</i> , <i>Impatiens balsamina</i> , <i>I. noli-tangere</i> , <i>I. textori</i> , <i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Feruloyl-p-coumaroylmethane	<i>Zingiber zerumbet</i>

Fetidine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. foetidum</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Fibralactone	<i>Fibraurea recisa</i>
Fibramine	<i>Fibraurea recisa</i>
Fibraminine	<i>Fibraurea recisa</i>
Ficusin	<i>Ficus carica</i>
Filicenal	<i>Adiantum boreale</i> , <i>A. capillus-junonis</i> , <i>A. pedatum</i> , <i>A. flabellulatum</i>
Filicene	<i>Adiantum boreale</i> , <i>A. capillus-junonis</i> , <i>A. pedatum</i> , <i>A. flabellulatum</i>
Filicic acid	<i>Aspidium falcatum</i> , <i>Dryopteris crassirhizoma</i> , <i>D. laeta</i> , <i>D. filix-mas</i> , <i>Pteris cretica</i> , <i>P. ensiformis</i> , <i>P. multifida</i> , <i>P. vittata</i> , <i>P. wallichiana</i>
Filicin	<i>Dryopteris laeta</i> , <i>D. filix-mas</i> , <i>Matteuccia struthiopteris</i>
Filmarone	<i>Dryopteris crassirhizoma</i> , <i>D. laeta</i> , <i>D. filix-mas</i>
Finitin	<i>Artemisia finita</i> , <i>A. frigida</i>
Fisetin	<i>Cotinus coggygia</i> , <i>Gleditsia horrida</i> , <i>G. sinensis</i> , <i>G. xylocarpa</i> , <i>Pistacia lentiscus</i>
Flavaspidic acids	<i>Dryopteris laeta</i> , <i>D. filix-mas</i>
Flavaspidin	<i>Dryopteris crassirhizoma</i>
Flavocommelitin	<i>Commelina communis</i>
Flavon glucoside	<i>Ajuga bracteosa</i> , <i>A. decumbens</i> , <i>A. pygmaea</i>
Flavone	<i>Callicarpa macrophylla</i> , <i>Citrus aurantium</i> , <i>Dracocephalum integrifolium</i> , <i>Fagopyrum esculentum</i> , <i>F. tataricum</i> , <i>Geum aleppicum</i> , <i>Glycyrrhiza pallidiflora</i> , <i>G. uralensis</i> , <i>Ilex pubescens</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i> , <i>Iris aqyatuca</i> , <i>I. buataatas</i> , <i>I. dichotoma</i> , <i>Lindera</i> <i>akoensis</i> , <i>Loropetalum chinense</i> , <i>Lysionotus pauciflorus</i> , <i>Vitex trifolia</i> , <i>V. rotundifolia</i>
Flavonoid derivatives	<i>Astragalus complanatus</i> , <i>A. henryi</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i>
Flavonoid glycoside	<i>Aesculus indica</i> , <i>Asarum europaeum</i> , <i>Laggera alata</i> , <i>Thalictrum foetidum</i> , <i>Urena procumbens</i>
Flavonoids	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Ampelopsis aconitifolia</i> , <i>A. brevipedunculata</i> , <i>A. japonica</i> , <i>A. bodinieri</i> , <i>A. contonensis</i> , <i>A. humulifolia</i> , <i>Artemisia lactiflora</i> , <i>Bauhinia championi</i> , <i>B. variegata</i> , <i>Bidens bipinnata</i> , <i>B. parviflora</i> , <i>Chloranthus glubra</i> , <i>C. oldhnami</i> , <i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i> , <i>Cypripedium guttatum</i> , <i>C. macranthum</i> , <i>C. pubescens</i> , <i>Cyrtomium falcatum</i> , <i>Elaeagnus glabra</i> , <i>Gynura bicolor</i> , <i>Hippophae rhamnoides</i> ,

Component	Source
Flavonoids (<i>continued</i>)	<i>Jatropha podagrica</i> , <i>Lemnaphyllum microphyllum</i> , <i>Lespedeza cuneata</i> , <i>Nepenthes raffsiana</i> , <i>Oplopanax elatus</i> , <i>Panax notoginseng</i> , <i>Podophyllum peltatum</i> , <i>P. pleianthum</i> , <i>Polygonum cuspidatum</i> , <i>P. perfoliatum</i> , <i>P. tinctorium</i> , <i>Rhaponticum uniflorum</i> , <i>Rhodiola elongata</i> , <i>Rhododendron dauricum</i> , <i>Rosa acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i> , <i>Rubus parvifolius</i> , <i>R. coreanus</i> , <i>R. crataegifolius</i> , <i>R. matsumuranus</i> , <i>R. saxatilis</i> , <i>Salvia plebeia</i> , <i>Scrophularia buergeriana</i> , <i>S. kakudensis</i> , <i>S. ningpoensis</i> , <i>S. oldhami</i> , <i>S. puergeriana</i> , <i>Solidago dahurica</i> , <i>S. pacifica</i> , <i>S. virgaurea</i> , <i>Sorbus alnifolia</i> , <i>S. amurensis</i> , <i>S. pohuashanensis</i> , <i>Spiraea salicifolia</i> , <i>Taraxacum officinale</i> , <i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i> , <i>Thesium chinense</i> , <i>Tilia amurensis</i> , <i>T. mandshurica</i> , <i>T. mongolica</i> , <i>Veronica linariaefolia</i>
Flavoxanthin	<i>Calendula officinalis</i>
Flavoyadorinin	<i>Viscum album</i> , <i>V. coloratum</i>
Fluggein	<i>Securinega virosa</i>
Foliamenthin	<i>Menyanthes trifoliata</i>
Folinic acid	<i>Angelica polymorpha</i> , <i>A. sinensis</i>
Formic acid	<i>Jasminum samba</i> , <i>Pyrrosia adnascens</i>
Formonetin	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Formononetin	<i>Astragalus complanatus</i> , <i>A. henyri</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i> , <i>Trifolium pratense</i> , <i>T. repens</i>
Fragarine	<i>Dictamnus albus</i> , <i>D. dasycarpus</i>
Framine	<i>Phyllodium pulchellum</i>
Fraxin	<i>Fraxinus bungeana</i> , <i>F. chinensis</i> , <i>F. floribunda</i> , <i>F. obovata</i> , <i>F. ornus</i> , <i>F. rhynchophylla</i>
Fraxinella	<i>Melia azedarach</i> , <i>M. japonica</i> , <i>M. toosendan</i>
Fraxinellone	<i>Dictamnus albus</i> , <i>D. dasycarpus</i>
Friedelaun-3-ol	<i>Euphorbia antiqorum</i>
Friedelin	<i>Clerodendrum trichotomum</i> , <i>C. spicatus</i> , <i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i> , <i>Euonymus alatus</i> , <i>E. bungeanus</i> , <i>E. maackii</i> , <i>Lophatherum gracile</i> , <i>Spatholobus suberectus</i> , <i>Syzygium cumini</i>
Fritillarine	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Fritilline	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Fructose	<i>Cucumis sativus</i> , <i>Ficus awkeotsang</i> , <i>Plumbago zeylanica</i> , <i>Pseudostellaria heterophylla</i> , <i>Sedum lineare</i>

Fulvoplumierin	<i>Plumeria rubra</i>
Fumaric acid	<i>Sarcandra glabra</i> , <i>Vicia faba</i>
Fungal lysozyme	<i>Ganoderma lucidum</i>
Furane	<i>Elsholtzia argyi</i> , <i>E. cristata</i> , <i>E. splendens</i> , <i>E. feddei</i> , <i>E. souliei</i>
Furanocoumarin	<i>Glehnia littoralis</i>
Furanodiene	<i>Curcuma aromatica</i> , <i>C. kwangsiensis</i> , <i>C. longa</i> , <i>C. zedoaria</i>
Furanodienone	<i>Curcuma aromatica</i> , <i>C. kwangsiensis</i> , <i>C. longa</i> , <i>C. zedoaria</i>
Furostanol saponins	<i>Allium macrostemon</i> , <i>Corchorus olitorius</i>
Furylisobutyl ketone	<i>Elsholtzia argyi</i> , <i>E. cristata</i> , <i>E. splendens</i> , <i>E. feddei</i> , <i>E. souliei</i>
Furylmethyl ketone	<i>Elsholtzia argyi</i> , <i>E. cristata</i> , <i>E. splendens</i> , <i>E. feddei</i> , <i>E. souliei</i>
Furylpropyl ketone	<i>Elsholtzia argyi</i> , <i>E. cristata</i> , <i>E. splendens</i> , <i>E. feddei</i> , <i>E. souliei</i>
Fustin	<i>Cotinus coggygria</i> , <i>Gleditsia horrida</i> , <i>G. sinensis</i> , <i>G. xylocarpa</i> , <i>Pistacia lentiscus</i>
Galactan	<i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Quercus acutissima</i> , <i>Q. aliena</i> , <i>Q. dentata</i> , <i>Q. liaotungensis</i> , <i>Q. mongolica</i> , <i>Q. variabilis</i> , <i>Trachycarpus wagnerianus</i> , <i>T. fortunei</i>
Galactitol	<i>Cassythia filliformis</i>
Galactomannan	<i>Cassia occidentalis</i> , <i>C. torosa</i>
Galactose	<i>Cucumis sativus</i> , <i>Fortunella crassifolia</i> , <i>F. japonica</i> , <i>F. margarita</i> , <i>Tamarindus indicus</i>
Galangin	<i>Alpinia katsumadai</i> , <i>A. globosum</i> , <i>A. kumatake</i>
Galangol	<i>Alpinia katsumadai</i> , <i>A. globosum</i> , <i>A. kumatake</i> , <i>A. officinarum</i>
Galanthamine	<i>Hippeastrum hybridum</i> , <i>Lycoris radiata</i> , <i>L. longituba</i> , <i>L. aura</i>
Gallic acid	<i>Acalypha australis</i> , <i>Caesalpinia pulcherrima</i> , <i>C. sappan</i> , <i>Cornus officinalis</i> , <i>Erigeron canadensis</i> , <i>E. annuus</i> , <i>Eucalyptus robusta</i> , <i>Euphorbia humifusa</i> , <i>E. hirta</i> , <i>Geranium dahuricum</i> , <i>G. eriostemon</i> , <i>G. sibiricum</i> , <i>G. wlassowianum</i> , <i>G. wilfordi</i> , <i>Lawsonia inermis</i> , <i>Macrocarpium officinalis</i> , <i>Melaleuca leucadendra</i> , <i>Pistacia lentiscus</i> , <i>Polygonum bistorta</i> , <i>P. zeylanica</i> , <i>Punica granatam</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i> , <i>Rhus chinensis</i> , <i>R. cotinus</i> , <i>R. javanica</i> , <i>R. osbeckii</i>
Gallocatechin	<i>Rosa acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i>
Gallotannic acid	<i>Punica granatam</i> , <i>Rhus chinensis</i> , <i>R. cotinus</i> , <i>R. javanica</i> , <i>R. osbeckii</i>
Galuteolin	<i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i>
Gamatin	<i>Pongamia pinnata</i>
Gambir-fluorescein	<i>Acacia catechu</i>

Component	Source
Gambirine	<i>Acacia catechu</i>
Gamma-aminobutyric acid	<i>Astragalus complanatus</i> , <i>A. henryi</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i>
Gamma-dichroline	<i>Adamia chinensis</i> , <i>A. cyanea</i> , <i>A. versicolof</i>
Gamma-fernene	<i>Adiantum boreale</i> , <i>A. capillus-junonis</i> , <i>A. pedatum</i> , <i>A. flabellulatum</i>
Gamma-sitosterol	<i>Oldenlandia chrysotricha</i> , <i>O. corymbosa</i>
Gamma-terpinene	<i>Poncirus trifoliata</i>
Gardenin	<i>Gardenia angusta</i> , <i>G. jasminoides</i>
Gardenoside	<i>Gardenia florida</i> , <i>G. grandiflora</i> , <i>G. maruba</i> , <i>G. pictorum</i> , <i>G. radicans</i> , <i>Gentiana algida</i> , <i>G. barbata</i> , <i>G. manshurica</i> , <i>G. olivieri</i> , <i>G. scabra</i> , <i>G. squarrosa</i> , <i>G. triflora</i>
Gastrodin	<i>Gastrodia elata</i>
Gedunin	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Gein	<i>Geum aleppicum</i>
Gelatin	<i>Bletilla hyacinthina</i> , <i>B. striata</i>
Gelsemidine	<i>Gelsemium sempervirens</i> , <i>G. elegans</i>
Gelsemine	<i>Gelsemium sempervirens</i> , <i>G. elegans</i>
Geniposide	<i>Gentiana algida</i> , <i>G. barbata</i> , <i>G. manshurica</i> , <i>G. olivieri</i> , <i>G. scabra</i> , <i>G. squarrosa</i> , <i>G. triflora</i>
Genisteine	<i>Cytisus scoparius</i> , <i>Glycine max</i> , <i>G. soja</i> , <i>Sophora japonica</i> , <i>Trifolium pratense</i> , <i>T. repens</i>
Genkwadaphnin	<i>Daphne fortunei</i> , <i>D. genkwa</i>
Genkwanin	<i>Artemisia gmelini</i> , <i>Daphne fortunei</i> , <i>D. genkwa</i>
Gentialutine	<i>Menyanthes trifoliata</i>
Gentianidine	<i>Gentiana dahurica</i> , <i>G. lutea</i> , <i>G. macrophylla</i>
Gentianine	<i>Gentiana algida</i> , <i>G. barbata</i> , <i>G. dahurica</i> , <i>G. lutea</i> , <i>G. macrophylla</i> , <i>G. manshurica</i> , <i>G. olivieri</i> , <i>G. scabra</i> , <i>G. squarrosa</i> , <i>G. triflora</i> , <i>Menyanthes trifoliata</i>
Gentianol	<i>Gentiana dahurica</i> , <i>G. lutea</i> , <i>G. macrophylla</i>
Gentiatibetin	<i>Menyanthes trifoliata</i>
Gentiatibetine	<i>Menyanthes trifoliata</i>
Gentiopicroin	<i>Gentiana algida</i> , <i>G. barbata</i> , <i>G. manshurica</i> , <i>G. olivieri</i> , <i>G. scabra</i> , <i>G. squarrosa</i> , <i>G. triflora</i>
Gentisic acid	<i>Impatiens balsamina</i> , <i>I. noli-tangere</i> , <i>I. textori</i>

Geoside	<i>Geum aleppicum</i>
Geranic	<i>Cymbopogon citratus</i>
Geraniol	<i>Chenopodium ambrosioides</i> , <i>Citrus reticulata</i> , <i>Coriandrum sativum</i> , <i>Cymbopogon citratus</i> , <i>Daucus carota</i> , <i>Elettaria cardamomum</i> , <i>Myristica fragrans</i> , <i>Plumeria rubra</i> , <i>Rosa rugosa</i> , <i>Thymus vulgaris</i> , <i>Vitex</i> <i>nequundo</i> , <i>Xanthoxylum piperitum</i> , <i>Zanthaxylum bungeanum</i>
Geranylgeraniol	<i>Linum stelleroides</i> , <i>L. usitatissimum</i>
Gerariol	<i>Murraya paniculata</i>
Germacrene	<i>Kadsura japonica</i> , <i>Rhododendron dauricum</i> , <i>R. mucronatum</i>
Germine	<i>Veratrum dahuricum</i> , <i>V. maackii</i> , <i>V. nigrum</i>
Gibberelin A ₂₁	<i>Canavalia gladiata</i> , <i>C. ensiformis</i>
Gibberelin A ₂₂	<i>Canavalia gladiata</i> , <i>C. ensiformis</i>
Gibberellin	<i>Ginkgo biloba</i> , <i>Pharbitis diversifolia</i> , <i>P. hederacea</i> , <i>P. nil</i> , <i>P. triloba</i>
Gingerol	<i>Zingiber officinale</i>
Ginkgetin	<i>Ginkgo biloba</i>
Ginkgol	<i>Ginkgo biloba</i>
Ginkgolic acid	<i>Ginkgo biloba</i>
Ginkgolides	<i>Ginkgo biloba</i>
Ginnol	<i>Ginkgo biloba</i>
Ginsenoside R ₆	<i>Panax japonicum</i>
Ginsenosides	<i>Panax quinquefolium</i> , <i>P. ginseng</i> , <i>P. notoginseng</i>
Gitaloxigenin	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Gitaloxin	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Gitanin	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Gitoxigenin	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Gitoxin	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Glabralactone	<i>Angelica pubescens</i>
Glaucine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Gleditsin	<i>Gleditsia horrida</i> , <i>G. sinensis</i> , <i>G. xylocarpa</i>
Globulin	<i>Arachis hypogaea</i>
Glucan	<i>Omphalia lapidescens</i>

Component	Source
Glucides	<i>Fortunella crassifolia</i> , <i>F. japonica</i> , <i>F. margarita</i> .
Glucobrassicin	<i>Clerodendrum cyrtophyllum</i> , <i>Isatis indigotica</i> , <i>I. oblongata</i>
Glucoevatromonoside	<i>Corchorus olitorius</i>
Glucofragulin	<i>Polygonum cuspidatum</i>
Glucokinin	<i>Dolichos lablab</i>
Glucominol	<i>Allium chinense</i> , <i>A. odorum</i> , <i>A. sativum</i> , <i>A. tuberosum</i> , <i>A. uliginosum</i>
Gluconasturtin	<i>Rorippa indica</i> , <i>R. islandica</i> , <i>R. montana</i>
Glucononitol	<i>Vitex nequundo</i>
Glucopyranosides	<i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i>
Glucose	<i>Ficus awkeotsang</i> , <i>Lycopus lucidus</i> , <i>L. maackianus</i> , <i>L. parviflorus</i> , <i>L. ramosissimus</i> , <i>L. fargesii</i> , <i>L. veitchii</i> , <i>Nephelium longana</i> , <i>N. lappaceum</i> , <i>Plumbago zeylanica</i> , <i>Sedum lineare</i> , <i>Sagittardia sagittifolia</i> , <i>Tamarindus indicus</i>
Glucoside	<i>Ampelopsis aconitifolia</i> , <i>A. brevipedunculata</i> , <i>A. japonica</i> , <i>A. bodinieri</i> , <i>A. contonensis</i> , <i>A. humulifolia</i> , <i>Arachis hypogaea</i> , <i>Caragana sinica</i> , <i>C. microphylla</i> , <i>C. intermedia</i> , <i>C. franchetiana</i> , <i>Dodonaea viscosa</i> , <i>Sarcandra glabra</i>
Glucoside asiaticoside	<i>Centella asiatica</i>
Glucoside morindin	<i>Morinda citrifolia</i> , <i>M. officinalis</i>
Glucovanillin	<i>Avena fatua</i>
Glutamic acid	<i>Litchi chinensis</i> , <i>Pueraria montana</i> , <i>P. thunbergiana</i>
Glutamine	<i>Ficus carica</i> , <i>Dioscorea opposita</i>
Glutin-5-en-3-ol	<i>Alnus japonica</i>
Glutinol	<i>Imperata arundinaceae</i> , <i>I. cylindrica</i>
Glycine	<i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Glycoalkaloids	<i>Sesbinia sesbin</i>
Glycogen	<i>Cymbidium hyacinthinum</i> , <i>C. striatum</i>
Glycolic acid	<i>Asparagus cochinchinensis</i> , <i>A. falcatus</i> , <i>A. insularis</i> , <i>A. lucidus</i> , <i>A. officinalis</i> , <i>Physalis alkekengi</i>
Glycoside alkaloids	<i>Solanum biflorum</i>
Glycoside nodakenin	<i>Peucedanum decursivum</i>
Glycoside pharbitin	<i>Pharbitis diversifolia</i> , <i>P. hederacea</i> , <i>P. nil</i> , <i>P. triloba</i>

Glycoside raphantin	<i>Polygonum multifolrum, P. chinensis</i>
Glycosides	<i>Arundo donax, A. phragmites, Caesalpinia decapetula, Carduus acaulis, C. crispus, C. japonicus, Centipeda minima, Corchorus capsularis, C. olitorius, Gardenia angusta., G. jasminoides, Phragmites communis, Wisteria sinensis</i>
Glycosides clerodendrin	<i>Clerodendrum trichotomum, C. spicatus</i>
Glycosides tribuloside	<i>Tribulus terrestris</i>
Glycosine	<i>Glycosmis cochinchinensis, G. pentaphylla</i>
Glycosmine	<i>Glycosmis cochinchinensis, G. pentaphylla</i>
Glycosminine	<i>Glycosmis cochinchinensis, G. pentaphylla</i>
Glycyrrhiza	<i>Glycyrrhiza pallidiflora, G. uralensis</i>
Glycyrrhizic acid	<i>Glycyrrhiza pallidiflora, G. uralensis</i>
Glycyrrhizin	<i>Arachis hypogaea</i>
Glypenosides	<i>Gynostemma pentaphyllum</i>
Gobosterin	<i>Lappa communis, L. edulis, L. major, L. minor</i>
Gomphrenin	<i>Gomphrena globosa</i>
Gorlic acid	<i>Hydnocarpus anthelmintica, H. castaneus</i>
Gossypetin	<i>Rhododendron anthopogon, R. mucronatum</i>
Gossypitrin	<i>Equisetum arvense, E. hyemale, E. ramosissimum</i>
Gossypol	<i>Gossypium herbaceum</i>
Graveobiosides	<i>Apium graveolens</i>
Grayanotoxin	<i>Rhododendron mucronatum</i>
Guaiacol	<i>Ficus carica</i>
Guaiaxulene	<i>Ficus carica</i>
Guaijaverin	<i>Psidium guajava</i>
Guercitrin	<i>Plumbago zeylanica</i>
Guggulsterol	<i>Commiphora myrrha</i>
Guijaverin	<i>Celosia argentea, C. cristata, C. margariacea</i>
Gum	<i>Curcuma pallida, C. phaeocoulis, Delonix regia, Ficus awkeotsang</i>
Gurjuncene	<i>Menyanthes trifoliata</i>
Guvacine	<i>Areca catechu, A. hortonsis</i>

Component	Source
Guvacoline	<i>Areca catechu</i> , <i>A. hortonsis</i>
Gypsogenin	<i>Vaccaria segetalis</i> , <i>V. pyramidata</i>
Haemanthidien	<i>Haemanthus multiflorus</i> , <i>Zephyranthes candida</i>
Haementhamine	<i>Haemanthus multiflorus</i>
Haemolytic sapogenin	<i>Sansevieria trifasciata</i>
Harman	<i>Elaeagnus pungens</i> , <i>E. umbellata</i> , <i>Hippophae rhamnoides</i>
Harmane	<i>Tribulus terrestris</i>
Harmine	<i>Tribulus terrestris</i>
Harmol	<i>Hippophae rhamnoides</i>
Harpagoside	<i>Scrophularia buergeriana</i> , <i>S. kakudensis</i> , <i>S. ningpoensis</i> , <i>S. oldhami</i> , <i>S. puergeriana</i>
Harringtonine	<i>Cephalotaxus fortunei</i> , <i>C. qinensis</i> , <i>C. oliveri</i> , <i>C. wilsoniana</i> , <i>Stephania japonica</i>
Hayatidine	<i>Cissampelos pareira</i>
Hayatine	<i>Cissampelos pareira</i>
Hayatinine	<i>Cissampelos pareira</i>
Hectalactone	<i>Prunus persica</i>
Hedera acid	<i>Hedera rhombea</i> , <i>H. helix</i>
Hederagenin	<i>Aristolochia contorta</i> , <i>A. kaempferi</i> , <i>A. longa</i> , <i>A. recurvilabra</i> , <i>Caulophyllum robustum</i>
Hederasaponin B	<i>Anemone raddeana</i> , <i>A. rivularis</i> , <i>A. vitifolia</i>
Hederin	<i>Hedera rhombea</i> , <i>H. helix</i>
Helenien	<i>Tagetes patula</i>
Heliscopiol	<i>Euphorbia esula</i> , <i>E. helioscopia</i>
Hellebrin	<i>Caltha palustris</i>
Helminthosporin	<i>Cassia occidentalis</i> , <i>C. torosa</i>
Helveticoside	<i>Corchorus olitorius</i>
Helveticosol	<i>Erysimum amurense</i> , <i>E. cheiranthoides</i>
Hemigossypol	<i>Gossypium herbaceum</i>
Hemin	<i>Hippophae rhamnoides</i>
Hentriacontane	<i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri</i> , <i>P. major</i>
Heptacosane	<i>Alnus japonica</i> , <i>Dicranopteris linearis</i>

Heptane	<i>Pittosporum tobira</i>
Herbacetrin	<i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i>
Herberinecorysamine	<i>Macleaya cordata</i>
Hernandezine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Hernandine	<i>Stephania hernendifolia</i>
Hernandoline	<i>Stephania hernendifolia</i>
Hernandolinol	<i>Stephania hernendifolia</i>
Herniarin	<i>Carum carvi</i>
Hesperidin	<i>Citrus deliciosa</i> , <i>C. nobilis</i> , <i>C. reticulata</i> , <i>Clinopodium chinense</i> , <i>C. polycephalum</i> , <i>C. gracile</i> , <i>C. umbrosum</i> , <i>Schizonepeta multifida</i> , <i>S. tenuifolia</i>
Heutriacontane	<i>Firmiana simplex</i>
Hexacosanol	<i>Scopalia dulcis</i>
Hexadecenoic acid	<i>Myristica fragrans</i>
Hexahydromatricaria	<i>Erigeron canadensis</i> , <i>E. annuus</i>
Hexalactone	<i>Prunus persica</i>
Hexanoic acid	<i>Prunus persica</i>
Hexanol	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Prunus persica</i>
Hexylenaldehyde	<i>Ulmus campestris</i> , <i>U. macrocarpa</i> , <i>U. pumila</i>
Hibifolin	<i>Melochia corchorifolia</i>
Hinesol	<i>Atractylodes chinensis</i> , <i>A. japonica</i> , <i>A. koreana</i> , <i>A. lancea</i> , <i>A. lyrata</i> , <i>A. ovata</i> , <i>A. macrocephala</i>
Hinokiflavone	<i>Cycas revoluta</i> , <i>Podocarpus macrophyllus</i> , <i>Selaginella tamarisina</i> , <i>Thuja koraiensis</i> , <i>T. orientalis</i> , <i>T. chinensis</i>
Hirsuteine	<i>Uncaria hirsuta</i> , <i>U. rhynchophylla</i>
Hirsutine	<i>Uncaria hirsuta</i> , <i>U. rhynchophylla</i>
Hirsutrin	<i>Gossypium herbaceum</i>
Hispidulin	<i>Salvia plebeia</i>
Histamine	<i>Viscum album</i>
Homoarbutin	<i>Chimaphila umbellata</i> , <i>Pyrola decorata</i> , <i>P. japonica</i> , <i>P. incarnata</i> , <i>P. renifolia</i> , <i>P. rotundifolia</i>
Homoaromoline	<i>Stephania cepharantha</i>
Homoflavoyadorinin	<i>Viscum album</i> , <i>V. coloratum</i>

Component	Source
Homolycorine	<i>Lycoris radiata</i> , <i>L. longituba</i> , <i>L. aura</i>
Homoorentin	<i>Swertia pseudochinensis</i>
Homoorientin	<i>Fagopyrum esculentum</i> , <i>F. sagittatum</i>
Homoplantagin	<i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri</i> , <i>P. major</i>
Homoplantaginin	<i>Salvia plebeia</i>
Homoserine	<i>Astragalus chinensis</i> , <i>A. complanatus</i> , <i>A. henyri</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i>
Homostephanoline	<i>Stephania japonica</i>
Homotrilobine	<i>Cocculus laurifolius</i> , <i>C. sarmentosus</i> , <i>C. trilobus</i>
Hopadiene	<i>Adiantum boreale</i> , <i>A. capillus-junonis</i> , <i>A. pedatum</i> , <i>A. flabellulatum</i>
Hormoharringtonine	<i>Cephalotaxus wilsoniana</i>
Houttuynium	<i>Houttuynia cordata</i>
Hovenosides	<i>Hovenia dulcis</i>
Hoyin	<i>Hoya carnosa</i>
Humulene	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i> , <i>Juniperus rigida</i> , <i>Humulus lupulus</i> , <i>H. scandens</i>
Huperzine A	<i>Hyperzia serrata</i>
Hydnocarpus oil	<i>Hydnocarpus anthelmintica</i> , <i>H. castaneus</i>
Hydrangeic acid	<i>Hydrangea macrophylla</i>
Hydrangenol	<i>Hydrangea macrophylla</i>
Hydroagarofuran	<i>Aquilaria agallocha</i> , <i>A. sinensis</i>
Hydrocarbons	<i>Viola acuminata</i> , <i>V. alisoviana</i> , <i>V. collina</i> , <i>V. dissecta</i> , <i>V. mandshurica</i> , <i>V. patrini</i> , <i>V. prionantha</i> , <i>V. verecunda</i>
Hydrocinnamic acid	<i>Aquilaria agallocha</i> , <i>A. sinensis</i>
Hydrocinnamic aldehyde	<i>Cinnamomum zeglanicum</i>
Hydrocotylene	<i>Vitex nequundo</i>
Hydrocyanic acid	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Armeniaca ansu</i> , <i>A. mandsharica</i> , <i>A. sibirica</i> , <i>A. vulgaris</i> , <i>Chaenomeles japonica</i> , <i>C. sinensis</i> , <i>C. speciosa</i> , <i>Cydonia sinensis</i> , <i>Heracleum</i> <i>dissectum</i> , <i>H. lanatum</i> , <i>Manihot esculenta</i> , <i>Photinia serrulata</i> , <i>Polygonum bistorta</i> , <i>Sanguisorba</i> <i>officinalis</i> , <i>S. grandiflora</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>Taraxacum officinale</i>
Hydrogen cyanide	<i>Ophiorrhiza japonica</i> , <i>O. mungos</i>

Hydroquinone	<i>Ilex pubescens</i>
Hydroxybenzoic acids	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Heracleum dissectum</i> , <i>H. lanatum</i> , <i>Polygonum bistorta</i> , <i>Sanguisorba officinalis</i> , <i>S. orba grandiflora</i> , <i>S. officinalis</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>Solidago dahurica</i> , <i>S. pacifica</i> , <i>S. virgaurea</i> , <i>Taraxacum officinale</i> , <i>Vitex negundo</i>
Hydroxycinnamic acid	<i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i> , <i>Taraxacum officinale</i>
Hydroxyephedrine	<i>Cephalotaxus wilsoniana</i>
Hydroxyevodiamine	<i>Evodia rutaecarpa</i>
Hydroxygenkwanin	<i>Daphne fortunei</i> , <i>D. genkwa</i> , <i>Wikstroemia indica</i>
Hydroxyleamptothecine	<i>Camptotheca acuminata</i>
Hydroxypeucedanin	<i>Angelica decursiva</i>
Hynocarpic acid	<i>Hydnocarpus anthelmintica</i> , <i>H. castaneus</i>
Hyoscine	<i>Cyperus rotundus</i> , <i>Hyoscyamus bohemicus</i>
Hyoscyamine	<i>Datura alba</i> , <i>D. fastuosa</i> , <i>D. innoxia</i> , <i>D. metel</i> , <i>D. stramonium</i> , <i>D. tatula</i> , <i>Scopolia tangutica</i> , <i>Hyoscyamus bohemicus</i> , <i>Physochlaina infundibularis</i>
Hyoscyperin	<i>Hyoscyamus bohemicus</i>
Hypaconitine	<i>Aconitum laciniatum</i> , <i>A. kusnezoffii</i> , <i>A. chinense</i> , <i>A. vilmorinianum</i> , <i>A. pariculigerum</i> , <i>A. balfouri</i> , <i>A. carmichaelii</i> , <i>A. chasmanthum</i> , <i>A. deinorrhizum</i> , <i>A. fischeri</i> , <i>Aconitum jaluense</i> , <i>A. koreanum</i> , <i>A. napellus</i> , <i>A. praeparata</i> , <i>A. volubile</i>
Hypaphorine	<i>Abrus precatorius</i>
Hypericin	<i>Hypericum chinensis</i> , <i>H. perforatum</i> , <i>H. triquetrifolium</i>
Hyperin	<i>Chimaphila umbellata</i> , <i>Dysosma pleiantha</i> , <i>Hypericum triquetrifolium</i> , <i>H. chinensis</i> , <i>Parnassia palustris</i> , <i>Persicaria hydropiper</i> , <i>Prunus padus</i> , <i>Rumex acetosa</i> , <i>R. acetosella</i> , <i>R. amurensis</i> , <i>R. aquaticus</i> , <i>R. gmelini</i> , <i>R. longifolius</i> , <i>R. maritimus</i> , <i>R. marschallianus</i> , <i>R. stenophyllus</i> , <i>R. thyrsoiflorus</i> , <i>Saururus chinensis</i> , <i>Tussilago farfara</i> , <i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>
Hyperoside	<i>Campanula glomerata</i> , <i>C. punctata</i> , <i>Celosia argentea</i> , <i>C. cristata</i> , <i>C. margariacea</i> , <i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i> , <i>Hibiscus mutabilis</i> , <i>Persicaria amphibia</i> , <i>Prunella vulgaris</i> , <i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>
Hypoepistephanine	<i>Stephania japonica</i>
Hypophyllanthin	<i>Phyllanthus urinaria</i> , <i>P. niruri</i> , <i>P. reticulatus</i>
Hystonin	<i>Physalis alkekengi</i> , <i>P. angulata</i>

Component	Source
Icariine	<i>Epimedium brevicorum</i> , <i>E. koreanum</i> , <i>E. macranthum</i>
Icarlin	<i>Epimedium brevicorum</i> , <i>E. koreanum</i> , <i>E. macranthum</i>
Ifflaionic acid	<i>Scopalia dulcis</i>
Ilungianins	<i>Pimpinella thellungiana</i>
Imidazolylothylamine	<i>Solanum lyratum</i> , <i>S. melongena</i>
Imperatorin	<i>Angelica amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i> , <i>A. decursiva</i> , <i>Poncirus trifoliata</i>
Indican	<i>Clerodendrum cyrtophyllum</i> , <i>Glehnia littoralis</i> , <i>Isatis indigotica</i> , <i>I. oblongata</i> , <i>Polygonum perfoliatum</i> , <i>P. tinctorium</i>
Indigo	<i>Baphicanthus cusia</i> , <i>Isatis indigotica</i> , <i>I. oblongata</i>
Indirubin	<i>Baphicanthus cusia</i> , <i>Clerodendrum cyrtophyllum</i>
Indo-brown	<i>Baphicanthus cusia</i>
Indo-yellow	<i>Baphicanthus cusia</i>
Indoid compounds	<i>Gentiana algida</i> , <i>G. barbata</i> , <i>G. manshurica</i> , <i>G. olivieri</i> , <i>G. scabra</i> , <i>G. squarrosa</i> , <i>G. triflora</i>
Indoxyl-5-ketogluconate	<i>Isatis chinensis</i> , <i>I. tinctoria</i>
Ineole	<i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i>
Ingigo	<i>Clerodendrum cyrtophyllum</i>
Inlin	<i>Carpesium abrotanoides</i> , <i>C. athunbergianum</i>
Inokosterone	<i>Achyranthes bidentata</i> , <i>A. japonica</i> , <i>Woodwardia japonica</i>
Inositol	<i>Lonicera acuminata</i> , <i>L. apodonta</i> , <i>L. brachypoda</i> , <i>L. japonica</i> , <i>L. confusa</i> , <i>L. hypoglaucha</i> , <i>L. chinensis</i> , <i>L. flexuosa</i> , <i>L. maackii</i> , <i>Sonchus arvensis</i> , <i>S. oleraceus</i>
Insulanoline	<i>Paracyclea insularis</i>
Insularine	<i>Paracyclea ochiaiana</i> , <i>P. insularis</i> , <i>Stephania japonica</i>
Insulin	<i>Dolichos lablab</i>
Inteolin-7-β-neohesperidoside	<i>Veronica sibirica</i> , <i>V. undulata</i>
Inulicin	<i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i>
Inulin	<i>Adenophora triphylla</i> , <i>A. verticillata</i> , <i>Ajuga bracteosa</i> , <i>Calendula officinalis</i> , <i>Campanula gentianoides</i> , <i>C. grandiflora</i> , <i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i> , <i>Cirsium chinense</i> , <i>C. japonicum</i> , <i>Lappa communis</i> , <i>L. edulis</i> , <i>L. major</i> , <i>L. minor</i> , <i>Senecio vulgaris</i> , <i>Taraxacum formosanum</i> , <i>T. officinale</i>
Inusterols	<i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i>

Invertase	<i>Hordeum vulgare</i> , <i>Plumbago zeylanica</i>
Invertin	<i>Menyanthes trifoliata</i>
Iodine	<i>Dioscorea bulbifera</i> , <i>Laminaria angusta</i> , <i>L. cichorioides</i> , <i>L. japonica</i> , <i>L. longipedalis</i> , <i>L. religiosa</i> , <i>Polygonum bistorta</i> , <i>Salix babylonica</i> , <i>S. matsudana</i> , <i>S. microstachya</i> , <i>Trifolium pratense</i> , <i>T. repens</i>
Iridin	<i>Iris aqyatuca</i> , <i>I. बाततस</i> , <i>I. dichotoma</i> , <i>I. lactea</i>
Iridoid glucosides	<i>Hedyotis diffusa</i> , <i>Scrophularia buergeriana</i> , <i>S. kakudensis</i> , <i>S. ningpoensis</i> , <i>S. oldhami</i> , <i>S. puergeriana</i>
Iridoidglycosides	<i>Vitex nequundo</i>
Iridomyrmecin	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i>
Irigenin	<i>Iris lactea</i>
Irisflorentin	<i>Iris lactea</i>
Irisquinone	<i>Iris pallasii</i>
Iron	<i>Portulaca pilosa</i> , <i>Sargassum pallidum</i>
Iron oxide	<i>Phyllostachys bambusoide</i> , <i>P. nigra</i>
Isatan	<i>Isatis chinensis</i> , <i>I. tinctoria</i>
Isatan B	<i>Clerodendrum cyrtophyllum</i> , <i>Isatis indigotica</i> , <i>I. oblongata</i>
Iso-chondrodendrine	<i>Paracyclea insularis</i>
Iso-corynoxine	<i>Uncaria hirsuta</i> , <i>U. rhynchophylla</i>
Iso-cucurbitacin B	<i>Neosalsomitra integrifoliola</i>
Iso-rhynchophylline	<i>Uncaria hirsuta</i> , <i>U. rhynchophylla</i>
Isoadiantone	<i>Adiantum boreale</i> , <i>A. capillus-junonis</i> , <i>A. pedatum</i> , <i>A. flabellulatum</i>
Isoamaranthin	<i>Gomphrena globosa</i>
Isoamyl	<i>Matricaria chamomilla</i>
Isoanthricin	<i>Anthriscus aemula</i> , <i>A. sylvestris</i>
Isobavachin	<i>Psoralea corylifolia</i>
Isobeturudin	<i>Bougainvillea brasiliensis</i> , <i>B. glabra</i>
Isobutyl	<i>Matricaria chamomilla</i>
Isochaksine	<i>Cassia alata</i> ,
Isochlorogenic acid	<i>Sorbus alnifolia</i> , <i>S. amurensis</i> , <i>S. ohuashanensis</i> , <i>Viburnum sargentii</i>
Isochondrodendrine	<i>Stephania hernendifolia</i>
Isocorynoline	<i>Corydalis incisa</i> , <i>C. bungeana</i>

Component	Source
Isocorypalmine	<i>Papaver somniferum</i>
Isocryptomerin	<i>Selaginella tamarisina</i>
Isocryptotanshinone	<i>Salvia miltiorhiza</i>
Isodexylephantopin	<i>Elephantopus molis</i>
Isoeugenitin	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i>
Isoeugenol	<i>Myristica fragrans</i>
Isofernene	<i>Adiantum boreale</i> , <i>A. capillus-junonis</i> , <i>A. pedatum</i> , <i>A. flabellulatum</i>
Isoferulic acid	<i>Cimicifuga dahurica</i> , <i>C. foetida</i> , <i>C. heracleifolia</i> , <i>C. racemosa</i> , <i>C. ussuriensis</i>
Isoflavone derivatives	<i>Glycine max</i> , <i>G. soja</i>
Isoflavones	<i>Pueraria lobata</i> , <i>P. pseudo-hirsuta</i>
Isofuranogermacrene	<i>Lindera strychnifolia</i>
Isoginketine	<i>Ginkgo biloba</i>
Isoharringtonin	<i>Cephalotaxus wilsoniana</i>
Isohomoarbutin	<i>Chimaphila umbellata</i> , <i>Pyrola decorata</i> , <i>P. japonica</i> , <i>P. incarnata</i> , <i>P. renifolia</i> , <i>P. rotundifolia</i>
Isohumulone	<i>Humulus lupulus</i>
Isoimperatorin	<i>Notopterygium incisum</i>
Isoindigo	<i>Baphicanthus cusia</i> , <i>Clerodendrum cyrtophyllum</i>
Isoleucin	<i>Avena fatua</i>
Isoleucine	<i>Oryza sativa</i>
Isoiensinine	<i>Nelumbium nelumbo</i>
Isolinderalactone	<i>Lindera strychnifolia</i>
Isolinderoxide	<i>Lindera strychnifolia</i>
Isoliquiritigenen	<i>Glycyrrhiza pallidiflora</i> , <i>G. uralensis</i>
Isoliquiritigenin	<i>Astragalus complanatus</i> , <i>A. henyri</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i>
Isoliquiritin	<i>Glycyrrhiza pallidiflora</i> , <i>G. uralensis</i>
Isolobelamine	<i>Lobelia chinensis</i> , <i>L. pyramidalis</i> , <i>L. sessilifolia</i>
Isomaculosindine	<i>Dictamnus albus</i> , <i>D. dasycarpus</i>
Isomangiferin	<i>Anemarrhena asphodeloides</i> , <i>Pyrrosia lingua</i> , <i>P. petiolosa</i> , <i>P. sheareri</i>

Isomenthone	<i>Glechoma hederacea</i> , <i>G. longituba</i>
Isomesityl oxide	<i>Cryptotaenia japonica</i> , <i>C. canadensis</i>
Isomyristicin	<i>Anethum graveoleus</i>
Isonematatabiol	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i>
Isoorientin	<i>Polygonum orientale</i> , <i>Trigonella foenum-graecum</i> , <i>Vitex negundo</i> , <i>V. trifolia</i> , <i>V. rotundifolia</i>
Isopatrinen	<i>Patrina scabiosaefolia</i>
Isopelletierine	<i>Punica granatum</i>
Isopimpinellin	<i>Zanthoxylum ailanthoides</i>
Isopinocampone	<i>Glechoma hederacea</i> , <i>G. longituba</i>
Isoquercetin	<i>Campanula glomerata</i> , <i>C. punctata</i> , <i>Hypericum attenuatum</i> , <i>H. ascyron</i> , <i>H. japonicum</i> , <i>H. perforatum</i> , <i>H. sumpsonii</i>
Isoquercitrin	<i>Apocynum venetum</i> , <i>Celosia argentea</i> , <i>C. cristata</i> , <i>C. margariacea</i> , <i>Cucumis sativus</i> , <i>Cyrtomium falcatum</i> , <i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i> , <i>Hibiscus mutabilis</i> , <i>Houttynia cordata</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i> , <i>Loropetalum chinense</i> , <i>Melaleuca leucadendra</i> , <i>Saururus chinensis</i>
Isoquinoline	<i>Chenopodium ambrosioides</i>
Isoramanone	<i>Adonis chrysocyathus</i> , <i>A. brevistyla</i> , <i>A. vernalis</i>
Isorhamnetin	<i>Caltha palustris</i> , <i>Campanula glomerata</i> , <i>C. punctata</i> , <i>Ginkgo biloba</i> , <i>Hippophae rhamnoides</i> , <i>Sophora japonica</i>
Isorhamnetin-3-mono-beta-D-glucoside	<i>Hippophae rhamnoides</i>
Isorhynchophylline	<i>Nauclea rhynchophylla</i> , <i>N. sinensis</i>
Isoricinoleic acid	<i>Ricinus communis</i>
Isosakuranetin	<i>Eupatorium odoratum</i>
Isosinomenine	<i>Cocculus diversifolius</i> , <i>C. thunbergii</i> , <i>Sinomenium acutum</i>
Isosteroidal alkaloids	<i>Fritillaria species</i>
Isotadeonal	<i>Persicaria hydropiper</i> , <i>Polygonum hydropiper</i>
Isotalatizidine	<i>Aconitum barbatum</i> , <i>A. austroyunnanense</i> , <i>Stemona japonica</i> , <i>S. tuberosa</i>
Isoetrandrine	<i>Stephania cepharantha</i> , <i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Isothalidenzine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>

Component	Source
Isothamnetin	<i>Typha angustata</i> , <i>T. angustifolia</i> , <i>T. davidiana</i> , <i>T. latifolia</i> , <i>T. minima</i> , <i>T. orientalis</i> , <i>T. praequalis</i>
Isothiocyanates	<i>Lepidium apetalum</i> , <i>L. virginicum</i>
Isothujene	<i>Ledum palustre</i>
Isotrilobine	<i>Cocculus laurifolius</i> , <i>C. sarmentosus</i> , <i>C. trilobus</i>
Isovaleraldehyde	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Isovaleric acid	<i>Artemisia gmelini</i> , <i>Cymbopogon citratus</i> , <i>Humulus lupulus</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Isovanilhyperzine A	<i>Hyperzia serrata</i>
Isovitexin	<i>Jatropha podagrica</i> , <i>Polygonum orientale</i> , <i>Swertia pseudochinensis</i>
Isoxanthanol	<i>Xanthium chinense</i> , <i>X. japonicum</i> , <i>X. mongolicum</i> , <i>X. sibiricum</i> , <i>X. strumarium</i>
Izalpinin	<i>Alpinia japonica</i>
Jaligonic acid	<i>Phytolacca acinosa</i> , <i>P. americana</i> , <i>P. japonica</i> , <i>P. kaempferi</i> , <i>P. octandra</i> , <i>P. pekinensis</i>
Jambolin	<i>Syzygium cumini</i>
Jasmiiflorin	<i>Jasminum mesnyi</i> , <i>J. nudiflorum</i>
Jasmiplierin	<i>Jasminum mesnyi</i> , <i>J. nudiflorum</i>
Jatamansic acid	<i>Nardostachys jatamansi</i>
Jatrorrhizine	<i>Berberis amurensis</i> , <i>B. poiretii</i> , <i>B. sibirica</i> , <i>B. soulieana</i> , <i>Coptis chinensis</i> , <i>C. japonica</i> , <i>C. teeta</i> , <i>Fibraurea recisa</i> , <i>Mahonia japonica</i> , <i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. foetidum</i> , <i>T. glandulissimum</i> , <i>T. ichangense</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Jervine	<i>Hemerocallis flava</i> , <i>Veratrum dahuricum</i> , <i>V. formosanum</i> , <i>V. maackii</i> , <i>V. nigrum</i>
Juglandic acid	<i>Juncus effusus</i>
Juglanin	<i>Juglans mandshurica</i> , <i>J. regia</i>
Juglonone	<i>Juncus effusus</i>
Jugone	<i>Juglans mandshurica</i> , <i>J. regia</i>
Jujuboside A	<i>Ziziphus jujuba</i> , <i>Z. spinosa</i>
Jujuboside B	<i>Ziziphus jujuba</i> , <i>Z. spinosa</i>
k-strophanthin-β	<i>Apocynum venetum</i>
Kadsurarin A	<i>Kadsura japonica</i>
Kadsuric acid	<i>Kadsura japonica</i>

Kadsurin	<i>Kadsura japonica</i>
Kaempferin	<i>Alpinia katsumadai</i> , <i>A. globosum</i> , <i>A. kumatake</i> , <i>Cassia angustifolia</i>
Kaempferitrin	<i>Desmodium microphyllum</i> , <i>Geranium dahuricum</i> , <i>G. eriostemon</i> , <i>G. sibiricum</i> , <i>G. wlassowianum</i> , <i>G. wilfordi</i>
Kaempferol	<i>Aster ageratoides</i> , <i>Astragalus complanatus</i> , <i>A. henryi</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i> , <i>Calystegia hederacea</i> , <i>C. japonica</i> , <i>Campanula glomerata</i> , <i>C. punctata</i> , <i>Chimaphila umbellata</i> , <i>Convolvulus arvensis</i> , <i>Coriandrum sativum</i> , <i>Cornus alba</i> , <i>C. kousa</i> , <i>C. macrophylla</i> , <i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i> , <i>Hypericum perforatum</i> , <i>Isatis chinensis</i> , <i>I. tinctoria</i> , <i>Parnassia palustris</i> , <i>Pedicularis resupinata</i> , <i>Persicaria amphibia</i> , <i>Plumeria rubra</i> , <i>Pongamia pinnata</i> , <i>Rhamnus davurica</i> , <i>R. parvifolia</i> , <i>Vicia faba</i>
Kaempferol glucosides	<i>Euonymus alatus</i> , <i>E. bungeanus</i> , <i>E. maackii</i>
Kaempferol trisaccharide	<i>Sesbinia sesbin</i>
Kaempferol-3-galactoside daempferol	<i>Bauhinia championi</i> , <i>B. variegata</i>
Kaempferol-3-glucoside	<i>Rosa multiflora</i> , <i>Viburnum sargentii</i>
Kaempferol-3-glucosylgalactoside	<i>Ophiopogon japonicus</i>
Kaempferol-3-rhamnoglucoside	<i>Calystegia hederacea</i> , <i>C. japonica</i> , <i>Ginkgo biloba</i>
Kaempferol-3-robinobioside	<i>Phaseolus angularis</i> , <i>P. lunatus</i> , <i>P. radiatus</i> , <i>P. vulgaris</i>
Kaempferol-3,7-diglucoside	<i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i>
Kaempferol-7-shamnoside	<i>Chenopodium ambrosioides</i>
Kaempferol-rhamno glucoside	<i>Solidago dahurica</i> , <i>S. pacifica</i> , <i>S. virgaurea</i>
Kaempferol-rhamnoside	<i>Onychium japonicum</i> , <i>Pueraria lobata</i> , <i>P. pseudo-hirsuta</i>
Kansuinine	<i>Euphorbia kansui</i>
Kanugin	<i>Pongamia pinnata</i>
Karabin	<i>Nerum indicum</i>
Karanjin	<i>Pongamia pinnata</i>
Kaurene	<i>Podocarpus macrophyllus</i>
Kaurene derivatives	<i>Aralia chinensis</i> , <i>A. cordata</i> , <i>A. elata</i>
Ketone	<i>Hedychium coronarium</i> , <i>Plumeria rubra</i>
Khellol	<i>Cimicifuga dahurica</i> , <i>C. foetida</i> , <i>C. heracleifolia</i> , <i>C. racemosa</i> , <i>C. ussuriensis</i>
Kiganen	<i>Cryptotaenia japonica</i> , <i>C. canadensis</i>
Kiganol	<i>Cryptotaenia japonica</i> , <i>C. canadensis</i>

Component	Source
Kino-tannic acid	<i>Pterocarya stenoptera</i>
Kobusone	<i>Cyperus rotundus</i>
Konokiol	<i>Magnolia hypoleuca</i> , <i>M. officinalis</i> , <i>M. japonica</i>
Korepimidoside A	<i>Epimedium brevicorum</i> , <i>E. koreanum</i> , <i>E. macranthum</i>
Korepimidoside B	<i>Epimedium brevicorum</i> , <i>E. koreanum</i> , <i>E. macranthum</i>
Koumine	<i>Gelsemium sempervirens</i> , <i>G. elegans</i>
Kouminicine	<i>Gelsemium sempervirens</i> , <i>G. elegans</i>
Kouminine	<i>Gelsemium sempervirens</i> , <i>G. elegans</i>
Kukoamines	<i>Lycium chinense</i>
Kulinone	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Kumatakinin	<i>Alpinia japonica</i>
Kuraridin	<i>Sophora flavescens</i> , <i>S. alopecuroides</i>
Kurrin	<i>Picrorhiza kurroa</i>
Kutkin	<i>Picrorhiza kurroa</i>
l-(d)-isoleucine betaine	<i>Cannabis chinensis</i> , <i>C. sativa</i>
l-abrine	<i>Abrus precatorius</i>
l-anagryrine	<i>Sophora flavescens</i> , <i>S. alopecuroides</i>
l-arabinose	<i>Bupleurum chinense</i> , <i>B. falcatum</i> , <i>B. scorzoneraefolium</i> , <i>Malva chinensis</i> , <i>M. pulchella</i> , <i>M. verticillata</i> , <i>M. sylvestris</i> , <i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri</i> , <i>P. major</i>
l-baptifoline	<i>Sophora flavescens</i> , <i>S. alopecuroides</i>
l-beta-santonin	<i>Artemisia finita</i> , <i>A. frigida</i>
l-borneol	<i>Liquidambar acerifolia</i> , <i>L. formosana</i> , <i>L. maximowiczii</i>
l-cadinene	<i>Murraya paniculata</i>
l-camphen	<i>Cnidium monnieri</i>
l-camphor	<i>Hedyotis corymbosa</i>
l-caryophyllene	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
l-citronellol	<i>Rosa rugosa</i>
l-cocaine	<i>Erythroxylum coca</i>
l-curcamene	<i>Curcuma longa</i>

l-ephedrin	<i>Pinellia ternata</i> , <i>P. tuberifera</i>
l-ephedrine	<i>Ephedra distachya</i> , <i>E. equisetina</i> , <i>E. intermedia</i> , <i>E. monosperma</i> , <i>E. sinica</i>
l-epicatechin	<i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i>
l-epicatechol	<i>Camellia japonica</i> , <i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>
l-hexacosene	<i>Acanthopanax giraldii</i>
l-hyoscyamine	<i>Datura suaveolens</i>
l-limonene	<i>Chenopodium ambrosioides</i> , <i>Melaleuca leucadendra</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
l-linalool	<i>Cinnamomum zeglanicum</i> , <i>Rosa rugosa</i> , <i>Tagetes erecta</i>
l-menthone	<i>Glechoma hederacea</i> , <i>G. longituba</i> , <i>Lysimachia barystachys</i> , <i>L. christinae</i> , <i>L. clethroides</i> , <i>L. davurica</i>
l-methylcytisine	<i>Sophora flavescens</i> , <i>S. alopecuroides</i>
l-methylephedrine	<i>Ephedra distachya</i> , <i>E. equisetina</i> , <i>E. intermedia</i> , <i>E. monosperma</i> , <i>E. sinica</i>
l-norephedrine	<i>Ephedra distachya</i> , <i>E. equisetina</i> , <i>E. intermedia</i> , <i>E. monosperma</i> , <i>E. sinica</i>
l-p-menthene	<i>Rosa rugosa</i>
l-perilla	<i>Perilla frutescens</i> , <i>P. ocymoides</i> , <i>P. polystachya</i> , <i>P. arguta</i>
l-phellandrine	<i>Cinnamomum zeglanicum</i>
l-pimara-8,15-dien-19-oic acid	<i>Aralia chinensis</i> , <i>A. cordata</i> , <i>A. elata</i>
l-pinene	<i>Cnidium monnieri</i> , <i>Lysimachia barystachys</i> , <i>L. christinae</i> , <i>L. clethroides</i> , <i>L. davurica</i>
l-pinocamphone	<i>Glechoma hederacea</i> , <i>G. longituba</i> , <i>Lysimachia barystachys</i> , <i>L. christinae</i> , <i>L. clethroides</i> , <i>L. davurica</i>
l-propenylsulfonic acid	<i>Allium victorialis</i>
l-pulegone	<i>Glechoma hederacea</i> , <i>G. longituba</i>
l-rhamnose	<i>Malva chinensis</i> , <i>M. pulchella</i> , <i>M. verticillata</i> , <i>M. sylvestris</i> , <i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri</i> , <i>P. major</i>
l-sesamen	<i>Eleutherococcus senticosus</i>
l-sesamin	<i>Acanthopanax sessiliflorus</i>
l-stepharine	<i>Menispermum dauricum</i>
l-tetrahydropalmatine	<i>Stephania sinica</i>
Labdadien	<i>Araucaria cunninghamii</i>
Labenzyme	<i>Cirsium chinense</i> , <i>C. japonicum</i>

Component	Source
Laccero	<i>Baphicanthus cusia</i>
Lacero	<i>Clerodendrum cyrtophyllum</i>
Lacnophyllum	<i>Erigeron canadensis</i> , <i>E. annuus</i>
Lactiflorenol	<i>Artemisia lactiflora</i>
Lactone	<i>Cleome spinosa</i> , <i>C. gynandra</i> , <i>C. viscosa</i> , <i>Eupatorium chinense</i> , <i>E. lindleyanum</i> , <i>E. japonicum</i> , <i>Rhaponticum uniflorum</i>
Lactones-xanthatin	<i>Vitex nequendo</i>
Lactucero	<i>Sonchus arvensis</i> , <i>S. oleraceus</i>
Laminarin	<i>Laminaria angusta</i> , <i>L. cichorioides</i> , <i>L. japonica</i> , <i>L. longipedalis</i> , <i>L. religiosa</i>
Laminine	<i>Laminaria angusta</i> , <i>L. cichorioides</i> , <i>L. japonica</i> , <i>L. longipedalis</i> , <i>L. religiosa</i>
Lapase	<i>Aquilegia vulgaris</i>
Lappaol	<i>Arctium lappa</i>
Lappatin	<i>Lappa communis</i> , <i>L. edulis</i> , <i>L. major</i> , <i>L. minor</i>
Lappine	<i>Lappa communis</i> , <i>L. edulis</i> , <i>L. major</i> , <i>L. minor</i>
Larreagenin	<i>Anredera cordifolia</i>
Latex	<i>Ficus pumila</i> , <i>F. inicrocarpa</i>
Lathyrol diacetate benzoate	<i>Euphorbia lathyrus</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i>
Lathyrol diacetate nicotinate	<i>Euphorbia lathyrus</i> , <i>E. lucorum</i> , <i>E. resinifera</i> , <i>E. thymifolia</i>
Laudanine	<i>Papaver somniferum</i>
Lauric acid	<i>Ajuga bracteosa</i> , <i>Citrullus anguria</i> , <i>C. edulis</i> , <i>C. lanatus</i> , <i>C. vulgaris</i> , <i>Lindera obtusiloba</i> , <i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i> , <i>Myristica fragrans</i> , <i>Sepium sebiferum</i> , <i>S. discolor</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Laurifoline	<i>Zanthoxylum ailanthoides</i>
Laurotetanine	<i>Cassytha filliformis</i> , <i>Litsea cubeba</i>
Lavoxanthin	<i>Senecio argunensis</i> , <i>S. nemorensis</i> , <i>S. scandens</i>
Lawson	<i>Impatiens balsamina</i> , <i>I. noli-tangere</i> , <i>I. textori</i> , <i>Lawsonia inermis</i>
Laxogenin	<i>Smilax china</i> , <i>S. nipponica</i> , <i>S. sieboldii</i> , <i>S. riparia</i>
Lecithin	<i>Polygonum multifolrum</i> , <i>P. chinensis</i> , <i>Sesamum indicum</i>
Lecithine	<i>Cardamine leucantha</i> , <i>C. lyrata</i>

Lenrosine	<i>Catharanthus roseus</i>
Lenrosivine	<i>Catharanthus roseus</i>
Leonaridine	<i>Leonurus heterophyllus</i> , <i>L. japonicus</i> , <i>L. macranthus</i> , <i>L. mongolicus</i> , <i>L. pseudo-macranthus</i>
Leonurine	<i>Leonurus heterophyllus</i> , <i>L. japonicus</i> , <i>L. macranthus</i> , <i>L. mongolicus</i> , <i>L. pseudo-macranthus</i> , <i>L. sibiricus</i>
Leonurinine	<i>Leonurus heterophyllus</i> , <i>L. japonicus</i> , <i>L. macranthus</i> , <i>L. mongolicus</i> , <i>L. pseudo-macranthus</i>
Leucaenine	<i>Leucaena leucocephala</i>
Leucanol	<i>Leucaena leucocephala</i>
Leucine	<i>Avena fatua</i> , <i>Dioscorea opposita</i> , <i>Linum stelleroides</i> , <i>L. usitatissimum</i> , <i>Litchi chinensis</i> , <i>Oryza sativa</i>
Leucoanthocyanins	<i>Camellia japonica</i> , <i>Fagopyrum esculentum</i> , <i>F. sagittatum</i> , <i>Persicaria hydropiper</i> , <i>Plumbago zeylanica</i> , <i>Prunus persica</i>
Leucocyanidin	<i>Pileostegia viburnoides</i>
Leucocyanidol	<i>Euphorbia hirta</i>
Leucylphenylalanine anhydride	<i>Ligusticum chuanziang</i>
Levidulinase	<i>Amorphophallus rivieri</i>
Leviduline	<i>Amorphophallus rivieri</i>
Levulose	<i>Eriobotrya japonica</i>
Lichenin	<i>Usnea diffracta</i> , <i>U. longissima</i>
Liderane	<i>Lindera strychnifolia</i>
Liensinine	<i>Nelumbium nelumbo</i>
Lignin	<i>Arctium lappa</i> , <i>Boehmeria densiflora</i> , <i>Melaleuca leucadendra</i> , <i>Quercus acutissima</i> , <i>Q. aliena</i> , <i>Q. dentata</i> , <i>Q. liaotungensis</i> , <i>Q. mongolica</i> , <i>Q. variabilis</i>
Lignoceric acid	<i>Machilus thunbergii</i> , <i>Sinapis alba</i>
Ligustilide	<i>Angelica polymorpha</i> , <i>A. sinensis</i> , <i>Ligusticum chuanziang</i>
Limonene	<i>Anethum graveoleus</i> , <i>Artemisia lactiflora</i> , <i>Blumea balsumifera</i> , <i>Chrysanthemum boreale</i> , <i>C. indicum</i> , <i>C. lavandulaefolium</i> , <i>C. procumbens</i> , <i>C. tripartitum</i> , <i>Citrus deliciosa</i> , <i>C. nobilis</i> , <i>Conyza canadensis</i> , <i>Coriandrum sativum</i> , <i>Cunninghamia lanceolata</i> , <i>Erigeron canadensis</i> , <i>E. annuus</i> , <i>Glechoma hederacea</i> , <i>G. longituba</i> , <i>Juniperus rigida</i> , <i>Ledum palustre</i> , <i>Lindera glauca</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Lysimachia barystachys</i> , <i>L. christinae</i> , <i>L. clethroides</i> , <i>L. davurica</i> , <i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i> , <i>Notopterygium incisum</i> , <i>Oenothera javanica</i> , <i>Perilla</i> <i>frutescens</i> , <i>P. ocyroides</i> , <i>P. polystachya</i> , <i>P. arguta</i> , <i>Pinus bungeana</i> , <i>P. densiflora</i> , <i>P. koraiensis</i> , <i>P. sylvestris</i> , <i>P. tabulaeformis</i> , <i>Tagetes patula</i> , <i>Thymus vulgaris</i> , <i>Xanthoxylum piperitum</i> , <i>Zanthoxylum bungeanum</i>

Component	Source
Limonin	<i>Dictamnus albus</i> , <i>D. dasycarpus</i> , <i>Evodia rutaecarpa</i> , <i>Poncirus trifoliata</i>
Linalol	<i>Elettaria cardamomum</i>
Linalool	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Amomum cardamomum</i> , <i>A. globosum</i> , <i>A. tsao-ko</i> , <i>A. villosum</i> , <i>A. xanthloides</i> , <i>Artemisia argyi</i> , <i>A. halodendron</i> , <i>A. igniaria</i> , <i>A. indica</i> , <i>A. integrifolia</i> , <i>A. japonica</i> , <i>A. keiskeana</i> , <i>A. lagocephala</i> , <i>A. lavandulaefolia</i> , <i>A. scoparia</i> , <i>A. selengensis</i> , <i>A. sieversiana</i> , <i>A. vulgarts</i> , <i>Citrus reticulata</i> , <i>Conyza canadensis</i> , <i>Coriandrum sativum</i> , <i>Cymbopogon citratus</i> , <i>Eupatorium chinense</i> , <i>E. lindleyanum</i> , <i>E. japonicum</i> , <i>Glechoma hederacea</i> , <i>G. longituba</i> , <i>Hedyotis corymbosa</i> , <i>H. diffusa</i> , <i>Litsea cubeba</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i> , <i>Michelia alba</i> , <i>M. figo</i> , <i>Myristica fragrans</i> , <i>Perilla frutescens</i> , <i>P. ocymoides</i> , <i>P. polystachya</i> , <i>P. arguta</i> , <i>Plumeria rubra</i> , <i>Tagetes patula</i> , <i>Thymus vulgaris</i> , <i>Zanthoxylum bungeanum</i> , <i>Zingiber officinale</i>
Linalyl acetate	<i>Tagetes patula</i> , <i>Thymus vulgaris</i>
Linamarase	<i>Fagopyrum esculentum</i> , <i>F. sagittatum</i>
Linamarin	<i>Linum stelleroides</i> , <i>L. usitatissimum</i>
Linaracrine	<i>Lindera akoensis</i>
Linarezine	<i>Lindera akoensis</i>
Linarin	<i>Lindera akoensis</i>
Linderalactone	<i>Lindera strychnifolia</i>
Linderene	<i>Lindera strychnifolia</i>
Linderic acid	<i>Lindera obtusiloba</i>
Linderol	<i>Lindera obtusiloba</i>
Linderoxide	<i>Lindera strychnifolia</i>
Lindestrene	<i>Lindera strychnifolia</i>
Lindestreolide	<i>Lindera strychnifolia</i>
Linoleic acid	<i>Acanthopanax gracilistylus</i> , <i>A. spinosum</i> , <i>Angelica grosserrata</i> , <i>Ajuga bracteosa</i> , <i>Aquilegia vulgaris</i> , <i>Benincase cerifera</i> , <i>B. hispida</i> , <i>Cardamine leucantha</i> , <i>C. lyrata</i> , <i>Cibotium barometz</i> , <i>Citrullus anguria</i> , <i>C. edulis</i> , <i>C. lanatus</i> , <i>C. vulgaris</i> , <i>Coix agrestis</i> , <i>C. chinensis</i> , <i>C. lachryma</i> , <i>Cucumis sativus</i> , <i>Elettaria cardamomum</i> , <i>Jatropha gossypifolia</i> , <i>J. curcas</i> , <i>Lindera obtusiloba</i> , <i>Myristica fragrans</i> , <i>Sinapis alba</i> , <i>Tamarindus indicus</i> , <i>Sesamum indicum</i>

Linolein	<i>Typhonium giganteum</i>
Linolenic acid	<i>Cardamine leucantha</i> , <i>C. lyrata</i> , <i>Cornus walteri</i> , <i>Oenothera terythrosepala</i>
Linoleyl acetate	<i>Conyza canadensis</i> .
Linolic acid	<i>Corchorus capsularis</i> , <i>C. olitorius</i>
Lipase	<i>Ulmus campestris</i> , <i>U. macrocarpa</i> , <i>U. pumila</i>
Liquiritigenin	<i>Glycyrrhiza pallidiflora</i> , <i>G. uralensis</i>
Liquiritin	<i>Glycyrrhiza pallidiflora</i> , <i>G. uralensis</i>
Liriodenine	<i>Magnolia hypoleuca</i> , <i>M. officinalis</i> , <i>M. japonica</i>
Lirodenine	<i>Nelumbium nuciferum</i> , <i>N. speciosum</i>
Lithospermin	<i>Lithospermum erythrorhizon</i> , <i>L. officinalis</i>
Llysine	<i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Lobelanidine	<i>Lobelia chinensis</i> , <i>L. pyramidalis</i> , <i>L. sessilifolia</i>
Lobelanine	<i>Lobelia chinensis</i> , <i>L. pyramidalis</i> , <i>L. sessilifolia</i>
Lobeline	<i>Lobelia chinensis</i> , <i>L. pyramidalis</i> , <i>L. sessilifolia</i>
Loganin	<i>Cornus officinalis</i> , <i>C. walteri</i> , <i>Lonicera acuminata</i> , <i>L. apodonta</i> , <i>L. brachypoda</i> , <i>L. chinensis</i> , <i>L. confusa</i> , <i>L. flexuosa</i> , <i>L. hypoglauca</i> , <i>L. japonica</i> , <i>L. maackii</i> , <i>Menyanthes trifoliata</i>
Loliolide	<i>Maytenus diversifolia</i> , <i>M. confertiflorus</i>
Longiceroid	<i>Cornus officinalis</i>
Lonicerin	<i>Lonicera acuminata</i> , <i>L. apodonta</i> , <i>L. brachypoda</i> , <i>L. chinensis</i> , <i>L. confusa</i> , <i>L. flexuosa</i> , <i>L. hypoglauca</i> , <i>L. japonica</i> , <i>L. maackii</i> , <i>Menyanthes trifoliata</i>
Lotaustralin	<i>Linum stelleroides</i> , <i>L. usitatissimum</i>
Lotusine	<i>Nelumbium nelumbo</i>
Lucernol	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Lumicaerulic acid	<i>Coptis chinensis</i> , <i>C. japonica</i> , <i>C. teeta</i>
Lunularic acid	<i>Pileostegia viburnoides</i>
Lupenone	<i>Adenophora triphylla</i> , <i>A. verticillata</i> , <i>Alnus japonica</i> , <i>Firmiana simplex</i>
Lupeol	<i>Elephantopus molis</i> , <i>Eupatorium odoratum</i> , <i>Ficus carica</i> , <i>Plumeria rubra</i> , <i>Prunus padus</i> , <i>Viscum album</i> , <i>V. coloratum</i>
Lupeol acetate	<i>Artocarpus altilis</i> , <i>Elephantopus molis</i>
Lupeol palmitate	<i>Jatropha podagrica</i>

Component	Source
Lupeose	<i>Isatis chinensis</i> , <i>I. tinctoria</i>
Lupin alkaloid	<i>Euchresta japonicum</i>
Lupinidin	<i>Lupinus luteus</i>
Lupinine	<i>Lupinus luteus</i>
Lupulin	<i>Humulus lupulus</i>
Lupulone	<i>Humulus lupulus</i> , <i>H. scandens</i>
Lutein	<i>Cuscuta australis</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Luteioic acid	<i>Psidium guajava</i>
Luteolin	<i>Ajuga bracteosa</i> , <i>A. decumbens</i> , <i>A. pygmaea</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Bidens tripartita</i> , <i>Codonopsis lanceolata</i> , <i>Humulus scandens</i> , <i>Lonicera acuminata</i> , <i>L. apodonta</i> , <i>L. brachypoda</i> , <i>L. chinensis</i> , <i>L. confusa</i> , <i>L. flexuosa</i> , <i>L. hypoglaucha</i> , <i>L. japonica</i> , <i>L. maackii</i> , <i>Perilla frutescens</i> , <i>P. ocyroides</i> , <i>P. polystachya</i> , <i>P. arguta</i> , <i>Physalis alkekengi</i> , <i>Veronica sibirica</i> , <i>V. undulata</i>
Luteolin-7-glucoside	<i>Arthruxon hispidus</i> , <i>Daucus carota</i> , <i>Juncus effusus</i> , <i>Persicaria amphibia</i> , <i>Thymus amurensis</i> , <i>T. disjunctus</i> , <i>T. kitagawianus</i> , <i>T. komarovii</i> , <i>T. przewalskii</i> , <i>T. quinquecostatus</i> , <i>Vitex trifolia</i> , <i>V. rotundifolia</i>
Luteolin-7-rhamnoglucoside	<i>Lonicera acuminata</i> , <i>L. apodonta</i> , <i>L. brachypoda</i> , <i>L. chinensis</i> , <i>L. confusa</i> , <i>L. flexuosa</i> , <i>L. hypoglaucha</i> , <i>L. japonica</i> , <i>L. maackii</i>
Luteolin-7-β-D-glucoside	<i>Agrimonia eupatoria</i> , <i>A. pilosa</i> , <i>A. viscidula</i>
Luteolin-7-β-D-glucopyranoside	<i>Lemnaphyllum microphyllum</i>
Luteolin-monoarabinoside	<i>Arthruxon hispidus</i> , <i>A. hispidus</i>
Luteoline	<i>Arthruxon hispidus</i>
Luteolinidin	<i>Juncus effusus</i>
Luteolinidin 5-glucoside	<i>Azolla imbricata</i>
Lycoclavanin	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Lycoclavanol	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Lycodoline	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i>
Lycopene	<i>Calendula officinalis</i> , <i>Crocus sativus</i> , <i>Daucus carota</i> , <i>Hippophae rhamnoides</i>
Lycopodine	<i>Lycopodium annotinum</i> , <i>L. cernuum</i> , <i>L. compianatum</i>
Lycopose	<i>Lycopus fargesii</i> , <i>L. lucidus</i> , <i>L. maackianus</i> , <i>L. parviflorus</i> , <i>L. ramosissimus</i> , <i>L. veitchii</i>
Lycoramine	<i>Hippeastrum hybridum</i> , <i>Lycoris radiata</i> , <i>L. longituba</i> , <i>L. aura</i>

Lycorenine	<i>Lycoris radiata</i> , <i>L. longituba</i> , <i>L. aura</i>
Lycoricidine	<i>Lycoris radiata</i> , <i>L. longituba</i> , <i>L. aura</i>
Lycoricidinol	<i>Lycoris radiata</i> , <i>L. longituba</i> , <i>L. aura</i>
Lycorin	<i>Hymenocallis speciosa</i>
Lycorine	<i>Clivia miniata</i> , <i>Hippeastrum hybridum</i> , <i>Lycoris radiata</i> , <i>L. longituba</i> , <i>L. aura</i> , <i>Narcissus tazetta</i> , <i>Zephyranthes candida</i>
Lyoniols	<i>Lyonia ovalifolia</i>
Lysine	<i>Dolichos lablab</i> , <i>Litchi chinensis</i> , <i>Oryza sativa</i>
Lysopine	<i>Parthenocissus tricuspidata</i>
Maclurin	<i>Morus alba</i> , <i>M. constantinopolitana</i> , <i>M. indica</i>
Macrephyllic acid	<i>Podocarpus macrophyllus</i>
Macrophylline	<i>Senecio argunensis</i> , <i>S. nemorensis</i> , <i>S. scandens</i>
Madecassoside	<i>Centella asiatica</i>
Maesaguinone	<i>Maesa japonica</i> , <i>M. tenera</i>
Magnesium	<i>Portulaca pilosa</i> , <i>P. oleracea</i>
Magnocurarine	<i>Magnolia biloba</i> , <i>M. denudata</i> , <i>M. discolor</i> , <i>M. grandiflora</i> , <i>M. hypoleuca</i> , <i>M. japonica</i> , <i>M. liliflora</i> , <i>M. officinalis</i> , <i>M. purpurea</i>
Magnoflorine	<i>Aristolochia debilis</i> , <i>A. contorta</i> , <i>A. kaempferi</i> , <i>A. longa</i> , <i>A. recurvilabra</i> , <i>Caulophyllum robustum</i> , <i>Cocculus laurifolius</i> , <i>C. sarmentosus</i> , <i>C. trilobus</i> , <i>Epimedium brevicorum</i> , <i>E. koreanum</i> , <i>E. macranthum</i> , <i>Magnolia hypoleuca</i> , <i>M. japonica</i> , <i>M. officinalis</i> , <i>Menispermum dauricum</i> , <i>Papaver somniferum</i> , <i>Sinomenium acutum</i> , <i>Thalictrum foetidum</i> , <i>Zanthoxylum ailanthoides</i> , <i>Z. schinifolium</i>
Magnolol	<i>Magnolia hypoleuca</i> , <i>M. officinalis</i> , <i>M. japonica</i>
Mairin	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i>
Makisterones	<i>Podocarpus macrophyllus</i>
Makulor	<i>Commiphora myrrha</i>
Malic acid	<i>Chaenomeles japonica</i> , <i>C. sinensis</i> , <i>C. speciosa</i> , <i>Coriandrum sativum</i> , <i>Cornus officinalis</i> , <i>Cydonia sinensis</i> , <i>Drosera anglica</i> , <i>D. burmanni</i> , <i>D. rotundifolia</i> , <i>Eriobotrya japonica</i> , <i>Lactuca raddeana</i> , <i>L. indica</i> , <i>L. sativa</i> , <i>Macrocarpium officinalis</i> , <i>Matricaria chamomilla</i> , <i>Oxalis corriculaza</i> , <i>O. corymbosa</i> , <i>Prunus mume</i> , <i>P. persica</i> , <i>Ribes mandshurica</i> , <i>Viburnum sargentii</i> , <i>Vitis amurensis</i> , <i>V. vinifera</i>
Mallorepine	<i>Mallotus repandus</i>

Component	Source
Mallotin	<i>Mallotus repandus</i>
Maltase	<i>Fagopyrum esculentum</i> , <i>F. sagittatum</i> , <i>Solanum indicum</i>
Maltose	<i>Hordeum vulgare</i>
Maluidin glucoside	<i>Syzygium cuminii</i>
Malvidin	<i>Lythrum salicaria</i> , <i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Malvin	<i>Lythrum salicaria</i>
Mandelonitrile	<i>Prunus armeniaca</i>
Mangasene	<i>Portulaca pilosa</i>
Mangiferin	<i>Anemarrhena asphodeloides</i>
Mannan	<i>Dioscorea batatas</i>
Manneotetrose	<i>Isatis chinensis</i> , <i>I. tinctoria</i>
Mannit	<i>Gardenia angusta</i> , <i>G. jasminoides</i>
Mannitol	<i>Scopalia dulcis</i> , <i>Sonchus arvensis</i> , <i>S. oleraceus</i> , <i>Thesium chinense</i> , <i>Veronica sibirica</i> , <i>V. undulata</i>
Mannosan	<i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i>
Mannosan	<i>Trachycarpus wagnerianus</i> , <i>T. fortunei</i>
Mannose	<i>Amorphophallus rivieri</i> , <i>Cucumis sativus</i> , <i>Jasminum mesnyi</i> , <i>J. nudiflorum</i>
Margaric acid	<i>Sepium sebiferum</i> , <i>S. discolor</i>
Markogenin	<i>Anemarrhena asphodeloides</i>
Marmesin	<i>Angelica amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i>
Marsdeoreophisides	<i>Marsdenia tenacissima</i>
Martaicaria ester	<i>Conyza canadensis</i>
Maslinic acid	<i>Chamaenerion angustifolium</i> , <i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i> , <i>Punica granatam</i> , <i>Morinda citrifolia</i> , <i>M. officinalis</i>
Masperuloside	<i>Pistacia lentiscus</i>
Masticinic acid	<i>Pistacia lentiscus</i>
Masticonic acid	<i>Pistacia lentiscus</i>
Masticoresene	<i>Pistacia lentiscus</i>
Matai-resinol	<i>Arctium lappa</i>
Matairesinoside	<i>Trachelospermum jasminoides</i>

Matatabic acid	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i>
Matatabiether	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i>
Matatabistic acid	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i>
Matricaria	<i>Erigeron canadensis</i> , <i>E. annuus</i>
Matrine	<i>Sophora subprostrata</i>
Maytanacine	<i>Maytenus serrata</i> , <i>M. hookeri</i>
Maytanbutine	<i>Maytenus serrata</i> , <i>M. hookeri</i>
Maytanprine	<i>Maytenus serrata</i> , <i>M. hookeri</i>
Maytansine	<i>Maytenus diversifolia</i> , <i>M. confertiflorus</i> , <i>M. hookeri</i> , <i>M. serrata</i>
Maytansinol	<i>Maytenus serrata</i> , <i>M. hookeri</i>
Maytanvaline	<i>Maytenus serrata</i> , <i>M. hookeri</i>
Meconine	<i>Papaver somniferum</i>
Medicagemic acid	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Melaleucin	<i>Melaleuca leucadendra</i>
Melialactone	<i>Melia azedarach</i> , <i>M. japonica</i> , <i>M. toosendan</i>
Melianodiol	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Melianol	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Melianotriol	<i>Melia azedarach</i> , <i>M. japonica</i> , <i>M. toosendan</i>
Meliatin	<i>Menyanthes trifoliata</i>
Melibiose	<i>Solanum indicum</i>
Melilotic acid	<i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i>
Melilotoside	<i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i>
Melocorin	<i>Melochia corchorifolia</i>
Melotoxin	<i>Cucumis melo</i>
Menisnine	<i>Cissampelos pareira</i>
Menisperine	<i>Menispermum dauricum</i>
Menispermine	<i>Menispermum dauricum</i>
Menthene	<i>Rosa rugosa</i>
Menthiafolin	<i>Menyanthes trifoliata</i>

Component	Source
Menthol	<i>Glechoma hederacea</i> , <i>G. longituba</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Mentha arvensis</i> , <i>M. dahurica</i> , <i>M. haplocalyx</i> , <i>M. sachalinensis</i>
Menthone	<i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Mentha arvensis</i> , <i>M. dahurica</i> , <i>M. haplocalyx</i> , <i>M. sachalinensis</i>
Menthyl acetate	<i>Mentha arvensis</i> , <i>M. dahurica</i> , <i>M. haplocalyx</i> , <i>M. sachalinensis</i>
Menyanthin	<i>Menyanthes trifoliata</i>
Meoglucobrassicin	<i>Isatis indigotica</i> , <i>I. oblongata</i>
Mesaconitine	<i>Aconitum balfouri</i> , <i>A. carmichaelii</i> , <i>A. chasmanthum</i> , <i>A. chinense</i> , <i>A. deinorrhizum</i> , <i>A. fischeri</i> , <i>A. jaluense</i> , <i>A. koreanum</i> , <i>A. kusnezoffii</i> , <i>A. laciniatum</i> , <i>A. napellus</i> , <i>A. pariculigerum</i> , <i>A. praeparata</i> , <i>A. vilmorinianum</i> , <i>A. volubile</i>
Mesityl oxide	<i>Cryptotaenia japonica</i> , <i>C. canadensis</i>
Mesoinositol	<i>Clerodendrum trichotomum</i> , <i>C. spicatus</i> , <i>Viscum album</i> , <i>V. coloratum</i>
Metaphanine	<i>Stephania japonica</i>
Metaploxigenin	<i>Marsdenia tenacissima</i>
Methanethiol	<i>Asparagus cochinenesis</i> , <i>A. falcatus</i> , <i>A. insularis</i> , <i>A. lucidus</i> , <i>A. officinalis</i>
Methanolic	<i>Morinda parvifolia</i>
Methioine	<i>Oryza sativa</i>
Methoxyl-camptothecine	<i>Camptotheca acuminata</i>
Methoxylhemigisopol	<i>Gossypium herbaceum</i>
Methyl-3-O-beta-glucopyranosyl-gallate	<i>Rosa acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i>
Methyl acetyl-isocupressate	<i>Araucaria cunninghamii</i>
Methyl allyltrisulfide	<i>Allium victorialis</i>
Methyl allyldisulfide	<i>Allium victorialis</i>
Methyl amentoflavone	<i>Araucaria cunninghamii</i>
Methyl anthranilate	<i>Citrus deliciosa</i> , <i>C. nobilis</i>
Methyl-bellidifolin	<i>Swertia pseudochinensis</i>
Methyl caffeate	<i>Campanula glomerata</i> , <i>C. punctata</i>
Methyl cinnamate	<i>Alpinia officinarum</i>
Methyl commune	<i>Araucaria cunninghamii</i>

Methyl-corypalline	<i>Nelumbium nelumbo</i>
Methyl eugenol	<i>Michelia alba</i> , <i>M. figo</i>
Methyl isobutyl ketone	<i>Cryptotaenia japonica</i> , <i>C. canadensis</i>
Methyl isocupressate	<i>Araucaria cunninghamii</i>
Methyl-l-propenyl disulfide	<i>Allium victorialis</i>
Methyl-laurate	<i>Osmanthus fragrans</i>
Methyl-n-amyl ketone	<i>Cinnamomum zeglanicum</i>
Methyl n-nonyl ketone	<i>Zanthoxylum ailanthoides</i>
Methyl nigakinone	<i>Picrasma quassioides</i>
Methyl palmitate	<i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i>
Methyl-pelletierine	<i>Punica granatum</i>
Methyl salicylate	<i>Gaultheria leucocarpa</i>
Methyl-swertianin	<i>Swertia pseudochinensis</i>
Methylacetic acid	<i>Erigeron canadensis</i> , <i>E. annuus</i>
Methylanthranilate	<i>Citrus reticulata</i> , <i>Murraya paniculata</i>
Methylchavicol	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i> , <i>Foeniculum officinale</i> , <i>F. vulgare</i>
Methylcytisine	<i>Caulophyllum robustum</i> , <i>Sophora subprostrata</i>
Methylene-bishydroxy-coumarin	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Methylephedrine	<i>Ephedra distachya</i> , <i>E. equisetina</i> , <i>E. intermedia</i> , <i>E. monosperma</i> , <i>E. sinica</i>
Methylethylacetic ester	<i>Michelia alba</i> , <i>M. figo</i>
Methylheptenol	<i>Cymbopogon citratus</i>
Methylheptenone	<i>Cymbopogon citratus</i> , <i>Zingiber officinale</i>
Methylisopelletierine	<i>Punica granatum</i>
Methylkulonate	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Methylcaconitine	<i>Delphinium grandiflorum</i>
Methylmyristate	<i>Osmanthus fragrans</i>
Methylpentosans	<i>Abutilon theophrasti</i> , <i>A. avicennae</i>
Methylpalmitate	<i>Osmanthus fragrans</i>
Methylpentose	<i>Abutilon theophrasti</i> , <i>A. avicennae</i>
Michelabine	<i>Cocculus diversifolius</i> , <i>C. thunbergii</i> , <i>Michelia alba</i> , <i>M. figo</i>

Component	Source
Michelenolide	<i>Eupatorium formosanum</i>
Miltiorone	<i>Salvia miltiorhiza</i>
Mineral elements	<i>Oxyria digyna</i>
Minerals	<i>Artocarpus heterophyllus</i>
Miniatine	<i>Clivia miniata</i>
Minosine	<i>Mimosa invisa</i> , <i>M. pudica</i>
Mitraphylline	<i>Acacia catechu</i>
Molephantin	<i>Elephantopus molis</i>
Monocrotalines	<i>Crotalaria sessiliflora</i>
Monomeric tertiary indol alkaloids	<i>Strychnos nux-vomica</i>
Monoterpene	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Heracleum dissectum</i> , <i>H. lanatum</i> , <i>Polygonum bistorta</i> , <i>Sanguisorba officinalis</i> , <i>S. grandiflora</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>Taraxacum</i> <i>officinale</i>
Monotropin	<i>Pyrola decorata</i> , <i>P. japonica</i> , <i>P. incarnata</i> , <i>P. renifolia</i> , <i>P. rotundifolia</i>
Morin	<i>Morus alba</i> , <i>M. constantinopolitana</i> , <i>M. indica</i>
Morindadiol	<i>Morinda citrifolia</i> , <i>M. officinalis</i>
Morindaparvin-A	<i>Morinda parvifolia</i>
Morolic acid	<i>Adina rubella</i> , <i>A. ratemosa</i>
Morphine	<i>Papaver somniferum</i>
Morroniside	<i>Cornus officinalis</i>
Motephantinin	<i>Elephantopus molis</i>
Mucic acid	<i>Phyllanthus emblica</i>
Mucilage	<i>Ailanthus altissima</i> , <i>Ajuga bracteosa</i> , <i>Cymbidium hyacinthinum</i> , <i>C. striatum</i> , <i>Draceana graminifolia</i> , <i>Hyoscyamus bohemicus</i> , <i>Liriope graminifolia</i> , <i>L. platyphylla</i> , <i>L. spicata</i> , <i>Pericamylus formosanus</i> , <i>Polygonatum chinense</i> , <i>P. cirrhifolium</i> , <i>P. macropodium</i> , <i>P. officinale</i> , <i>P. sibiricum</i> , <i>P. stenophyllum</i> , <i>P. odoratum</i> , <i>P. vulgare</i> , <i>Plumbago zeylanica</i> , <i>Tamarindus indicus</i>
Mucronatine	<i>Crotalaria mucronata</i>
Mucronatinine	<i>Crotalaria mucronata</i>
Mucus	<i>Dioscorea cirrhosa</i> , <i>D. hispida</i> , <i>D. japonica</i>

Mukorosside	<i>Sapindus mukorossi</i>
Mulberrin	<i>Morus alba</i> , <i>M. constantinopolitana</i> , <i>M. indica</i>
Mulberrochromene	<i>Morus alba</i> , <i>M. constantinopolitana</i> , <i>M. indica</i>
Multiflorin	<i>Rosa multiflora</i>
Munjistin	<i>Rubia chinensis</i> , <i>R. cordifolia</i> , <i>R. mungista</i> , <i>R. sylvatica</i>
Muramine	<i>Papaver amurense</i> , <i>P. nudicaule</i> , <i>P. radicatum</i>
Muricatin A	<i>Ipomoea cairica</i>
Musaenoide	<i>Melasma arvense</i>
Muscarine	<i>Cannabis chinensis</i> , <i>C. sativa</i>
Muslinic acid	<i>Elaeagnus oldhumii</i>
Mustard oil	<i>Brassica alba</i> , <i>B. juncea</i>
Mutaxanthin	<i>Physalis alkekengi</i>
Myrcene	<i>Artemisia lactiflora</i> , <i>Commiphora myrrha</i> , <i>Daucus carota</i> , <i>Elettaria cardamomum</i> , <i>Juniperus rigida</i> , <i>Ledum palustre</i> , <i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i> , <i>Oenothera javanica</i> , <i>Poncirus trifoliata</i> , <i>Thymus vulgaris</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i> , <i>Zanthoxylum bungeanum</i>
Myricetin	<i>Cotinus coggygia</i> , <i>Myrica rubra</i> , <i>Rhododendron dauricum</i> , <i>Syzygium cuminii</i> , <i>Thuja koraiensis</i> , <i>T. orientalis</i> , <i>T. chinensis</i>
Myricitrin	<i>Cotinus coggygia</i>
Myricyl	<i>Spilanthes acmella</i>
Myricyl alcohol	<i>Cassia angustifolia</i>
Myriogynine	<i>Centipeda minima</i>
Myristic acid	<i>Blumea balsumifera</i> , <i>Citrullus anguria</i> , <i>C. edulis</i> , <i>C. lanatus</i> , <i>C. vulgaris</i> , <i>Coix agrestis</i> , <i>C. chinensis</i> , <i>C. lachryma</i> , <i>Jatropha gossypifolia</i> , <i>J. curcas</i> , <i>Lindera obtusiloba</i> , <i>Myristica fragrans</i> , <i>Sesamum indicum</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i> , <i>Viscum album</i> , <i>V. coloratum</i>
Myristicin	<i>Myristica fragrans</i>
Myrocin	<i>Brassica alba</i> , <i>B. juncea</i> , <i>Thlaspi arvense</i>
Myrosinase	<i>Cardamine leucantha</i> , <i>C. lyrata</i> , <i>Sinapis alba</i> , <i>Thlaspi arvense</i>
Myrtenol	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
N-desmethylchelerythrine	<i>Zanthoxylum nitidum</i>

Component	Source
N,N-dimethyltyptamine	<i>Phyllodium pulchellum</i>
N,N-dimethyltryptamine oxide	<i>Phyllodium pulchellum</i>
n-butyl allophanate	<i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i>
n-butyl-2-ethyl butyl phthalate	<i>Oenothera javanica</i>
n-caprylaldehyde	<i>Oplopanax elatus</i>
n-formyl-N-deacetylcolchine	<i>Iphigenia indica</i>
n-hentriacontane	<i>Aleurites fordii</i>
n-hexacosane	<i>Jatropha podagrica</i>
n-methyl anthranilic acid	<i>Evodia rutaecarpa</i>
n-methyl-2-(β -OH-propyl) piperidine	<i>Sedum sarmentosum</i>
n-methyl-isopelletierine	<i>Sedum sarmentosum</i>
n-methylanthranflamide	<i>Evodia rutaecarpa</i>
n-methylcocclaurine	<i>Nelumbium nuciferum</i> , <i>N. speciosum</i>
n-methylisococclaurine	<i>Nelumbium nuciferum</i> , <i>N. speciosum</i>
n-methylmorpholine	<i>Cassia occidentalis</i> , <i>C. torosa</i>
n-methyltyramine	<i>Citrus aurantium</i>
n-n-dimethyl-5-methoxytryptamine	<i>Evodia rutaecarpa</i>
n-nonyl aldehyde	<i>Tagetes erecta</i>
n-norarmepavine	<i>Machilus thunbergii</i>
n-phenylethyl alcohol	<i>Rosa rugosa</i>
Nandazurine	<i>Nandina domestica</i>
Nandinine	<i>Nandina domestica</i>
Naphthaquinone	<i>Plumbago zeylanica</i>
Naphthopyrones	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i>
Narcitine	<i>Narcissus tazetta</i>
Narcotic alkaloid	<i>Pericamylus formosanus</i>
Narcotine	<i>Papaver somniferum</i>
Naringenin-4'-O-pyranogluoside	<i>Cynomorium coccineum</i> , <i>C. songarium</i>
Naringin	<i>Citrus reticulata</i>

Nasunin	<i>Solanum lyratum</i> , <i>S. melongena</i>
Naucleoside	<i>Adina rubella</i> , <i>A. ratemosa</i>
Neferine	<i>Nelumbium nelumbo</i>
Negundoside	<i>Vitex nequundo</i>
Neo-allicin	<i>Allium chinense</i> , <i>A. odorum</i> , <i>A. sativum</i> , <i>A. tuberosum</i> , <i>A. uliginosum</i>
Neo-lignans	<i>Magnolia hypoleuca</i> , <i>M. japonica</i> , <i>M. officinalis</i>
Neo-nepetalactone	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i>
Neoandrographolide	<i>Andrographis paniculata</i>
Neoanisatin	<i>Illicium lanacedatum</i>
Neoboschnialactone	<i>Cistanche deserticola</i>
Neocarthamin	<i>Carthamus tinctorius</i>
Neochlorogenic acid	<i>Elaeagnus pungens</i> , <i>E. umbellata</i>
Neocnidilide	<i>Ligusticum chuanzang</i>
Neocryptomerin	<i>Podocarpus macrophyllus</i>
Neogitogenin	<i>Anemarrhena asphodeloides</i>
Neoglucobrassicin	<i>Clerodendrum cyrtophyllum</i>
Neohesperidin	<i>Poncirus trifoliata</i>
Neohesperidin	<i>Citrus reticulata</i>
Neolinarin	<i>Lindera akoensis</i>
Neolinderalactone	<i>Lindera strychnifolia</i>
Neomatabiol	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i>
Neotigogenin	<i>Smilax china</i> , <i>S. nipponica</i> , <i>S. sieboldii</i> , <i>S. riparia</i>
Neoxanthin	<i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Nepodin	<i>Rumex acetosa</i> , <i>R. acetosella</i> , <i>R. amurensis</i> , <i>R. aquaticus</i> , <i>R. crispus</i> , <i>R. gmelini</i> , <i>R. japonicus</i> , <i>R. longifolius</i> , <i>R. maritimus</i> , <i>R. marschallianus</i> , <i>R. stenophyllus</i> , <i>R. thyrsoiflorus</i>
Nerinine	<i>Zephyranthes candida</i>
Nerioderin	<i>Nerum indicum</i>
Neriodin	<i>Nerum indicum</i>
Neriodorin	<i>Nerum indicum</i>
Nerol	<i>Cymbopogon citratus</i> , <i>Osmanthus fragrans</i> , <i>Rosa rugosa</i>

Component	Source
Nerolidiol	<i>Melaleuca leucadendra</i>
Nerolidol	<i>Amomum cardamomum</i> , <i>A. globosum</i> , <i>A. tsao-ko</i> , <i>A. villosum</i> , <i>A. xanthioides</i> , <i>Hedyotis corymbosa</i>
Nervisterol	<i>Nervilia purpurea</i>
Nevadersin	<i>Lysionotus pauciflorus</i>
Niacin	<i>Achyranthes asperia</i> , <i>Amaranthus tricolor</i> , <i>Arachis hypogaea</i> , <i>Benincase cerifera</i> , <i>B. hispida</i> , <i>Boehmeria densiflora</i> , <i>Canarium album</i> , <i>C. sinense</i> , <i>Castanea crenata</i> , <i>C. mollissima</i> , <i>Corylus heterophylla</i> , <i>C. mandshurica</i> , <i>Glycine max</i> , <i>G. soja</i> , <i>Hibiscus rosa-sinensis</i> , <i>H. rhombifolius</i> , <i>Petasites japonicus</i> , <i>Syzygium aromaticum</i> , <i>Zea mays</i>
Nicotelline	<i>Nicotiana tabacum</i>
Nicotimine	<i>Nicotiana tabacum</i>
Nicotine	<i>Eclipta alba</i> , <i>E. marginata</i> , <i>E. prostrata</i> , <i>E. thermalis</i> , <i>E. erecta</i> , <i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i> , <i>Nicotiana tabacum</i>
Nicotinic acid	<i>Angelica polymorpha</i> , <i>A. sinensis</i> , <i>Celosia argentea</i> , <i>C. cristata</i> , <i>Lycium barbarum</i> , <i>L. megistocarpum</i> , <i>L. ovatum</i> , <i>L. trewianum</i> , <i>L. turbinatum</i> , <i>Lycoperiscon esculentum</i> , <i>Solanum nigrum</i>
Nigakihemiacetal A	<i>Picrasma quassioides</i>
Nigakilactone A	<i>Picrasma quassioides</i>
Nigakinone	<i>Picrasma quassioides</i>
Nilgirine	<i>Crotalaria mucronata</i> , <i>Desmodium pulehellum</i>
Nimbin	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Nimbolins	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Niranthin	<i>Phyllanthus urinaria</i> , <i>P. niruri</i> , <i>P. reticulatus</i>
Nirtetralin	<i>Phyllanthus urinaria</i> , <i>P. niruri</i> , <i>P. reticulatus</i>
Nishindaside	<i>Vitex nequundo</i>
Nishindine	<i>Vitex nequundo</i>
Nitidine	<i>Zanthoxylum nitidum</i>
Nitroacronycine	<i>Acronychia pedunculata</i> , <i>A. laurifolia</i>
Nitryl-glycoside	<i>Aquilegia vulgaris</i>
Nobiletin	<i>Citrus reticulata</i>
Nocoteine	<i>Nicotiana tabacum</i>

Nodakenetin	<i>Angelica decursiva</i> , <i>Peucedanum japonicum</i> , <i>P. praeruptorum</i> , <i>P. rubricaulle</i>
Nodakenin	<i>Angelica decursiva</i> , <i>Peucedanum japonicum</i> , <i>P. praeruptorum</i> , <i>P. rubricaulle</i>
Nonacosan-10-ol	<i>Dicranopteris linearis</i>
Nonacosan-10-one	<i>Dicranopteris linearis</i>
Nonacosane	<i>Dicranopteris linearis</i> , <i>Prunus padus</i> , <i>Rosa rugosa</i>
Nonalactone	<i>Prunus persica</i>
Nonanal	<i>Coriandrum sativum</i>
Nonyl aldehyde	<i>Rosa rugosa</i> , <i>Zingiber officinale</i>
Nonylic aldehyde	<i>Cinnamomum zeglanicum</i>
nor-rubrofusarin	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i>
Nordamnacanthal	<i>Morinda citrifolia</i> , <i>M. officinalis</i>
Nordracorubin	<i>Draceana graminifolia</i>
Norepinephrine	<i>Musa paradisiaca</i> , <i>Portulaca oleracea</i>
Noreugenin	<i>Adina rubella</i> , <i>A. ratemosa</i>
Noricariin	<i>Epimedium brevicorum</i> , <i>E. koreanum</i> , <i>E. macranthum</i>
Norkurarinone	<i>Sophora flavescens</i> , <i>S. alopecuroides</i>
Normenisarine	<i>Cocculus laurifolius</i> , <i>C. sarmentosus</i> , <i>C. trilobus</i>
Norpseudoephedrine	<i>Ephedra distachya</i> , <i>E. equisetina</i> , <i>E. intermedia</i> , <i>E. monosperma</i> , <i>E. sinica</i>
Norsecurinine	<i>Securinega viro</i>
Nortracheloside	<i>Trachelospermum jasminoides</i>
Nothosmyrnol	<i>Ligusticum jeholense</i> , <i>L. pyrenacum</i> , <i>L. sinense</i> , <i>L. tenuissimum</i> , <i>Nothosmyrnium japonicum</i>
Notoptero	<i>Notopterygium incisum</i>
Novacine	<i>Strychnos pierriana</i>
Nuciferine	<i>Nelumbium nuciferum</i> , <i>N. speciosum</i> , <i>Papaver amurense</i> , <i>P. nudicaule</i> , <i>P. radiculatum</i>
Nudicaulin	<i>Papaver amurense</i> , <i>P. nudicaule</i> , <i>P. radiculatum</i>
Nupharamine	<i>Nuphar japonicum</i> , <i>N. pumilum</i>
Nuzhenide	<i>Ligustrum lucidum</i> , <i>L. japonicum</i>
o-acetylcolumbianetin	<i>Cnidium monnieri</i>
o-cumaric acid	<i>Eupatorium chinense</i> , <i>E. lindleyanum</i> , <i>E. japonicum</i>
o-isovaleryl columbianetin	<i>Cnidium monnieri</i>

Component	Source
o-nornuciferine	<i>Nelumbium nuciferum</i> , <i>N. speciosum</i>
Obacunone	<i>Phellodendron amurense</i> , <i>P. chinensis</i>
Obakinone	<i>Dictamnus albus</i> , <i>D. dasycarpus</i>
Obtusifolin	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i>
Obtusin	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i>
Ocimene	<i>Tagetes patula</i>
Octacosane	<i>Ficus carica</i>
Octacosanol	<i>Firmiana simplex</i>
Octadecatetraenoic acid	<i>Stellaria media</i>
Octalactone	<i>Prunus persica</i>
Octanol	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i>
Octopinic acid	<i>Parthenocissus tricuspidata</i>
Odine	<i>Sargassum pallidum</i>
Odoratin	<i>Eupatorium odoratum</i>
Okinalin	<i>Pulsatilla ambigua</i> , <i>P. cernua</i> , <i>P. chinensis</i>
Okinalin	<i>Pulsatilla ambigua</i> , <i>P. cernua</i> , <i>P. chinensis</i>
Oldenlandoside	<i>Oldenlandia diffusa</i>
Olealonic acid	<i>Cyperus rotundus</i>
Oleandrin	<i>Nerium indicum</i>
Oleandrose	<i>Nerium indicum</i>
Oleanene derivatives	<i>Asparagus cochinchinensis</i>
Oleanolic acid	<i>Achyranthes japonica</i> , <i>Anemone raddeana</i> , <i>A. rivularis</i> , <i>A. vitifolia</i> , <i>Aralia chinensis</i> , <i>A. cordata</i> , <i>A. elata</i> , <i>Aristolochia contorta</i> , <i>A. kaempferi</i> , <i>A. longa</i> , <i>A. recurvilabra</i> , <i>Calendula officinalis</i> , <i>Clematis integrifolia</i> , <i>C. mandshurica</i> , <i>Codonopsis lanceolata</i> , <i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i> , <i>Ligustrum lucidum</i> , <i>L. japonicum</i> , <i>Melaleuca leucadendra</i> , <i>Oldenlandia chrysotricha</i> , <i>O. corymbosa</i> , <i>Panax ginseng</i> , <i>Prunella vulgaris</i> , <i>Swertia diluta</i> , <i>S. mileensis</i> , <i>Viscum album</i> , <i>V. coloratum</i>
Oleic acid	<i>Aleurites fordii</i> , <i>Angelica grosserrata</i> , <i>Aquilegia vulgaris</i> , <i>Ajuga bracteosa</i> , <i>Brucea javanica</i> , <i>B. sumatrana</i> , <i>Cardamine leucantha</i> , <i>C. lyrata</i> , <i>Citrullus anguria</i> , <i>C. edulis</i> , <i>C. lanatus</i> , <i>C. vulgaris</i> , <i>Coix agrestis</i> , <i>C. chinensis</i> , <i>C. lachryma</i> , <i>Corchorus capsularis</i> , <i>C. olitorius</i> , <i>Cucumis sativus</i> , <i>Elettaria cardamomum</i> , <i>Hedera rhombea</i> , <i>H. helix</i> , <i>Jatropha gossypifolia</i> , <i>J. curcas</i> , <i>Lindera obtusiloba</i> , <i>Myristica fragrans</i> , <i>Nuphar japonicum</i> , <i>N. pumilum</i> , <i>Tamarindus indicus</i>

Olein	<i>Ricinus communis</i>
Olein acid	<i>Sesamum indicum</i>
Oleoresin	<i>Dryopteris laeta</i> , <i>D. filix-mas</i>
Oligosaccharides	<i>Aesculus chinensis</i> , <i>A. hippocastanum</i> , <i>Typha angustata</i> , <i>T. angustifolia</i> , <i>T. davidiana</i> , <i>T. latifolia</i> , <i>T. minima</i> , <i>T. orientalis</i> , <i>T. praezalskii</i>
Olitoriside	<i>Corchorus olitorius</i>
Onjisaponin A	<i>Polygala tenuifolia</i>
Onjisaponin B	<i>Polygala tenuifolia</i>
Ononitol	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Ophelic acid	<i>Centaurium meyeri</i>
Ophiopogenins	<i>Ophiopogon japonicus</i>
Oplopanaxosides	<i>Oplopanax elatus</i>
Organic acids	<i>Ganoderma lucidum</i> , <i>Ledebouriella divaricata</i> , <i>Lysionotus pauciflorus</i> , <i>Polygonum perfoliatum</i> , <i>P. tinctorium</i> , <i>Ribes mandshurica</i> , <i>Sansevieria trifasciata</i> , <i>Trichosanthes kirilowii</i> , <i>T. uniflora</i>
Oridonin	<i>Rabdosia lasiocarpus</i> , <i>R. rubescens</i>
Orientin	<i>Fagopyrum esculentum</i> , <i>F. sagittatum</i> , <i>Linum stelleroides</i> , <i>L. usitatissimum</i> , <i>Lythrum salicaria</i> , <i>Persicaria</i> <i>orientalis</i> , <i>Polygonum orientale</i> , <i>Vitex negundo</i> , <i>V. rotundifolia</i> , <i>V. trifolia</i>
Orientin-7-O-glucoside	<i>Uraria crinita</i> , <i>U. lagopodioides</i>
Orientoside	<i>Persicaria orientalis</i>
Orthomethylcoumaric aldehyde	<i>Cinnamomum aromaticum</i> , <i>C. cassia</i>
Osalic acid	<i>Plumbago zeylanica</i>
Osmane	<i>Osmanthus fragrans</i>
Osthenol-7-O- β -gentiobioside	<i>Glehnia littoralis</i>
Osthol	<i>Angelica pubescens</i> , <i>Murraya paniculata</i>
Oxalate	<i>Oxalis corriculaza</i> , <i>O. corymbosa</i>
Oxalic acids	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Coriandrum sativum</i> , <i>Heracleum dissectum</i> , <i>H. lanatum</i> , <i>Juncus effusus</i> , <i>Lactuca raddeana</i> , <i>L. indica</i> , <i>L. sativa</i> , <i>Polygonum bistorta</i> , <i>Sanguisorba</i> <i>officinalis</i> , <i>S. grandiflora</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>Taraxacum officinale</i> , <i>Vitis amurensis</i> , <i>V. vinifera</i>
Oxoushinsunine	<i>Michelia alba</i> , <i>M. figo</i>

Component	Source
Oxycanthine	<i>Berberis amurensis</i> , <i>B. poiretii</i> , <i>B. sibirica</i> , <i>B. soulieana</i> , <i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Oxychelerythrine	<i>Zanthoxylum nitidum</i>
Oxylysin	<i>Avena fatua</i>
Oxymatrine	<i>Sophora subprostrata</i>
Oxymethyl anthraquinone	<i>Cassia alata</i> , <i>C. siamea</i>
Oxynitidine	<i>Zanthoxylum niti</i>
Oxypaeoniflorin	<i>Paeonia albiflora</i> , <i>P. edulis</i> , <i>P. japonica</i> , <i>P. lactiflora</i> , <i>P. moutan</i> , <i>P. officinalis</i>
Oxypeucedanin	<i>Angelica amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i>
Oxypurpureine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Oxyristic acid	<i>Phytolacca acinosa</i> , <i>P. americana</i> , <i>P. japonica</i> , <i>P. kaempferi</i> , <i>P. octandra</i> , <i>P. pekinensis</i>
Oxysanguinarine	<i>Macleaya cordata</i>
p-coumaric acid	<i>Impatiens balsamina</i> , <i>I. noli-tangere</i> , <i>I. textori</i> , <i>Matteuccia struthiopteris</i> , <i>Plumbago zeylanica</i>
p-cymene	<i>Chenopodium ambrosioides</i> , <i>Cinnamomum zeglanicum</i> , <i>Daucus carota</i> , <i>Elettaria cardamomum</i> , <i>Glechoma hederacea</i> , <i>G. longituba</i> , <i>Juniperus rigida</i> , <i>Thymus amurensis</i> , <i>T. disjunctus</i> , <i>T. kitagawianus</i> , <i>T. komarovii</i> , <i>T. przewalskii</i> , <i>T. quinquecostatus</i> , <i>T. vulgaris</i>
p-hydroxyacetophenone	<i>Senecio cannabifolius</i>
p-hydroxybenzoic	<i>Matteuccia struthiopteris</i>
p-hydroxybenzoic acid	<i>Rhododendron mucronatum</i>
p-lumicolchicine	<i>Iphigenia indica</i>
P-methoxybenzylacetone	<i>Aquilegia buergeriana</i> , <i>A. parviflora</i>
p-methoxycinnamaldehyde	<i>Agastache rugosa</i> , <i>A. rugosa</i> f. <i>hypoleuca</i>
p-methoxycinnamic acid	<i>Scrophularia buergeriana</i> , <i>S. kakudensis</i> , <i>S. ningpoensis</i> , <i>S. oldhami</i> , <i>S. puergeriana</i>
p-terpinene	<i>Thymus amurensis</i> , <i>T. disjunctus</i> , <i>T. kitagawianus</i> , <i>T. komarovii</i> , <i>T. przewalskii</i> , <i>T. quinquecostatus</i>
p-tyrosol	<i>Rhodiola elongata</i>
p-vinylguaiaicol	<i>Hedyotis diffusa</i>
p-vinylphenol	<i>Hedyotis diffusa</i>
Pachymarose	<i>Poria cocos</i>
Pachymic acid	<i>Poria cocos</i>

Paeonidin	<i>Rosa rugosa</i>
Paeoniflorin	<i>Paeonia albiflora</i> , <i>P. edulis</i> , <i>P. japonica</i> , <i>P. lactiflora</i> , <i>P. moutan</i> , <i>P. officinalis</i>
Paeonin	<i>Cynanchum paniculatum</i> , <i>Paeonia obovata</i> , <i>P. suffruticosa</i> , <i>P. veitchii</i> , <i>Viburnum sargentii</i>
Paeonol	<i>Cynanchum paniculatum</i> , <i>Paeonia obovata</i> , <i>P. suffruticosa</i> , <i>P. veitchii</i>
Paeonoside	<i>Paeonia obovata</i> , <i>P. suffruticosa</i> , <i>P. veitchii</i>
Palamatine	<i>Berberis amurensis</i> , <i>B. poirerii</i> , <i>B. sibirica</i> , <i>B. soulieana</i>
Palderoside	<i>Oldenlandia diffusa</i>
Pallidine	<i>Corydalis incisa</i> , <i>C. bungeana</i>
Palmaline	<i>Coptis chinensis</i> , <i>C. japonica</i> , <i>C. teeta</i>
Palmatine	<i>Calystegia hederacea</i> , <i>C. japonica</i> , <i>Fibraurea recisa</i> , <i>Phellodendron amurense</i> , <i>P. chinensis</i> , <i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. glandulissimum</i> , <i>T. ichangense</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Palmitic acid	<i>Acanthopanax gracilistylus</i> , <i>A. spinosum</i> , <i>Aquilegia vulgaris</i> , <i>Ajuga bracteosa</i> , <i>Aleuries fordii</i> , <i>Angelica grosserrata</i> , <i>Benincasa cerifera</i> , <i>B. hispida</i> , <i>Blumea balsumifera</i> , <i>Cibotium barometz</i> , <i>Citrullus anguria</i> , <i>C. edulis</i> , <i>C. lanatus</i> , <i>C. vulgaris</i> , <i>Coix agrestis</i> , <i>C. chinensis</i> , <i>C. lachryma</i> , <i>Corchorus capsularis</i> , <i>C. olitorius</i> , <i>Cucumis sativus</i> , <i>Cynomorium coccineum</i> , <i>C. songarium</i> , <i>Elettaria cardamomum</i> , <i>Jatropha gossypifolia</i> , <i>J. curcas</i> , <i>Matteuccia struthiopteris</i> , <i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i> , <i>Nuphar japonicum</i> , <i>N. pumilum</i> , <i>Sepium sebiferum</i> , <i>S. discolor</i> , <i>Sesamum indicum</i> , <i>Sonchus arvensis</i> , <i>S. oleraceus</i> , <i>Tamarindus indicus</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Palmitine	<i>Thalictrum foetidum</i>
Palustrine	<i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i>
Panaxadiol	<i>Gynostemma pentaphyllum</i> , <i>Panax notoginseng</i> , <i>P. zingiberensis</i>
Panaxynol	<i>Panax ginseng</i>
Paniculatinmurrayin	<i>Murraya paniculata</i>
Pantothenic acid	<i>Glycine max</i> , <i>G. soja</i>
Papain	<i>Ficus carica</i>
Papaverine	<i>Papaver somniferum</i>
Paraaspidin	<i>Dryopteris laeta</i> , <i>D. filix-mas</i>
Parasorbic acid	<i>Sorbus alnifolia</i> , <i>S. amurensis</i> , <i>S. pohuashanensis</i>
Parietin	<i>Polygonum multiflorum</i> , <i>P. chinensis</i>

Component	Source
Parthenolide	<i>Eupatorium formosanum</i>
Patchoulenone	<i>Cyperus rotundus</i>
Patrinoside	<i>Patrina scabiosaefolia</i>
Patuletin	<i>Tagetes patula</i>
Patulitrin	<i>Tagetes patula</i>
Pectic acid	<i>Centella asiatica</i>
Pectic compound	<i>Lactuca raddeana</i> , <i>L. indica</i> , <i>L. sativa</i>
Pectins	<i>Ajuga bracteosa</i> , <i>Myristica fragrans</i> , <i>Plumeria rubra</i> , <i>Taraxacum formosanum</i> , <i>T. indicus</i>
Pectolinarigenin	<i>Lindera akoensis</i>
Pectolinarin	<i>Cirsium chinense</i> , <i>C. japonicum</i> , <i>Lindera akoensis</i>
Peganine	<i>Lindera akoensis</i>
Peimidine	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Peimilidine	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Peimine	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Peiminine	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Peimisine	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Peiniphine	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Pelargonidin-3-rhamnosylglucoside	<i>Chloranthus glubra</i> , <i>C. oldhami</i>
Pelargonin	<i>Paeonia obovata</i> , <i>P. suffruticosa</i> , <i>P. veitchii</i>
Pelletierine	<i>Punica granatum</i>
Peltatin	<i>Dysosma pleiantha</i>
Pencordin	<i>Peucedanum japonicum</i> , <i>P. praeruptorum</i> , <i>P. rubricaula</i>
Penta-o-galloyl- β -d-glucose	<i>Chamaenerion angustifolium</i>
Pentanoic acid	<i>Prunus persica</i>
Pentosan	<i>Quercus acutissima</i> , <i>Q. aliena</i> , <i>Q. dentata</i> , <i>Q. liaotungensis</i> , <i>Q. mongolica</i> , <i>Q. variabilis</i> , <i>Sesamum indicum</i> , <i>Sesbinia javanica</i>
Pentosane	<i>Abutilon theophrasti</i> , <i>A. avicennae</i> , <i>Fortunella crassifolia</i> , <i>F. japonica</i> , <i>F. margarita</i>
Pentose	<i>Abutilon theophrasti</i> , <i>A. avicennae</i>
Pepsin	<i>Ficus carica</i>

Peptides	<i>Lycium chinense</i>
Peraksine	<i>Rauvolfia verticillata</i>
Pergularin	<i>Adonis chrysocyathus</i> , <i>A. brevistyla</i> , <i>A. vernalis</i>
Pericalline	<i>Catharanthus roseus</i>
Perilladehyde	<i>Perilla frutescens</i> , <i>P. ocymoides</i> , <i>P. polystachya</i> , <i>P. arguta</i>
Peripalloside	<i>Antiaris toxicaris</i>
Periplocin	<i>Periploca sepium</i>
Perividine	<i>Catharanthus roseus</i>
Perivine	<i>Catharanthus roseus</i>
Perlolyrine	<i>Ligusticum chuanziang</i>
Persicarin	<i>Oenothera javanica</i> , <i>Persicaria hydropiper</i> , <i>Polygonum hydropiper</i>
Peruvosides	<i>Thevetia peruviana</i>
Petroselenic acid	<i>Glehnia littoralis</i>
Petroselic acid	<i>Cryptotaenia japonica</i> , <i>C. canadensis</i>
Petroselinic acid	<i>Glehnia littoralis</i>
Petunidin	<i>Daucus carota</i> , <i>Oenothera javanica</i>
Petunidin glucoside	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Peuformosin	<i>Syzygium cumini</i>
Phantomolin	<i>Peucedanum formosanum</i>
Pharbilic acid	<i>Elephantopus mollis</i>
Phasin	<i>Pharbitis diversifolia</i> , <i>P. hederacea</i> , <i>P. nil</i> , <i>P. triloba</i>
Phasine	<i>Euphorbia esula</i> , <i>E. helioscopia</i>
Phellandrene	<i>Euphorbia esula</i> , <i>E. helioscopia</i>
	<i>Aucklandia costus</i> , <i>A. lappa</i> , <i>Cinnamomum aromaticum</i> , <i>C. cassia</i> , <i>Coriandrum sativum</i> , <i>Saussurea japonica</i> , <i>S. lappa</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i> , <i>Xanthoxylum piperitum</i> , <i>Zanthoxylum schinifolium</i> , <i>Zingiber officinale</i>
Phellandrine	<i>Cunninghamia lanceolata</i>
Phellodendrine	<i>Phellodendron amurense</i> , <i>P. chinensis</i>
Phellopterin	<i>Angelica amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i>
Phenanthrene-1,4-quinone	<i>Sphenomeris chusana</i>

Component	Source
Phene	<i>Saussurea japonica</i> , <i>S. lappa</i>
Phenethylamine	<i>Cornus alba</i> , <i>C. kousa</i> , <i>C. macrophylla</i>
Phenolic acid	<i>Ranunculus ternatus</i> , <i>Rhododendron mucronatum</i>
Phenolic compounds	<i>Leucaena leucocephala</i>
Phenolic derivatives	<i>Vitex negundo</i>
Phenols	<i>Cypripedium guttatum</i> , <i>C. macranthum</i> , <i>C. pubescens</i> , <i>Hedychium coronarium</i> , <i>Laggera alata</i> , <i>Nepenthes raffsiana</i> , <i>Urena procumbens</i>
Phenyl ethyl alcohol pentosans	<i>Eriobotrya japonica</i>
Phenylacetic acid	<i>Rosa rugosa</i>
Phenylalanine	<i>Oryza sativa</i>
Phenylethyl alcohol	<i>Plumeria rubra</i>
Phenylpropyl alcohol	<i>Cinnamomum aromaticum</i> , <i>C. cassia</i>
Phenytheptatriyne	<i>Bidens pilosa</i>
Phetidine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriel</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Phillyrin	<i>Forsythia suspensa</i> , <i>Syringa dilatata</i> , <i>S. oblata</i> , <i>S. reticulata</i> , <i>S. suspensa</i> , <i>S. vulgaris</i>
Phlobaphene	<i>Ulmus campestris</i> , <i>U. macrocarpa</i> , <i>U. pumila</i>
Phorbol	<i>Croton cascarilloides</i> , <i>C. tiglium</i>
Phosphatase	<i>Sinapis alba</i>
Phosphates	<i>Portulaca pilosa</i>
Phosphatides	<i>Fagopyrum esculentum</i> , <i>F. sagittatum</i>
Phosphatidyl-ethanolamine	<i>Tetragonia tetragonoides</i>
Phosphatidyl-inositol	<i>Tetragonia tetragonoides</i>
Phosphatidyl-serine	<i>Tetragonia tetragonoides</i>
Phosphatidylcholine	<i>Tetragonia tetragonoides</i>
Phthalide	<i>Ligusticum chuangxiong</i>
Phyllanthin	<i>Phyllanthus urinaria</i> , <i>P. niruri</i> , <i>P. reticulatus</i>
Phyllanthine	<i>Phyllanthus urinaria</i> , <i>P. niruri</i> , <i>P. reticulatus</i>
Phyllantidine	<i>Phyllanthus urinaria</i> , <i>P. niruri</i> , <i>P. reticulatus</i> , <i>Securinega suffruticosa</i>
Phylteralin	<i>Phyllanthus urinaria</i> , <i>P. niruri</i> , <i>P. reticulatus</i>

Physalein	<i>Lycium barbarum</i> , <i>L. megistocarpum</i> , <i>L. ovatum</i> , <i>L. trewianum</i> , <i>L. turbinatum</i> , <i>Physalis alkekengi</i>
Physalin A	<i>Physalis alkekengi</i>
Physalin B	<i>Physalis alkekengi</i>
Physalin C	<i>Physalis alkekengi</i>
Physanols	<i>Physalis alkekengi</i>
Physcim-l-gluco-rhamnoside	<i>Phyllodium pulchellum</i>
Physcion	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i> , <i>Rumex acetosa</i> , <i>R. acetosella</i> , <i>R. amurensis</i> , <i>R. aquaticus</i> , <i>R. gmelini</i> , <i>R. longifolius</i> , <i>R. maritimus</i> , <i>R. marschallianus</i> , <i>R. patientia</i> , <i>R. stenophyllus</i> , <i>R. thyrsoflorus</i>
Physoxanthin	<i>Physalis alkekengi</i>
Phytic acid	<i>Dioscorea batatas</i>
Phytin	<i>Sesamum indicum</i>
Phytoestrogens	<i>Trifolium pratense</i> , <i>T. repens</i>
Phytofluere	<i>Daucus carota</i>
Phytolaccatoxin	<i>Phytolacca acinosa</i> , <i>P. americana</i> , <i>P. japonica</i> , <i>P. kaempferi</i> , <i>P. octandra</i> , <i>P. pekinensis</i>
Phytolacine	<i>Phytolacca acinosa</i> , <i>P. americana</i> , <i>P. japonica</i> , <i>P. kaempferi</i> , <i>P. octandra</i> , <i>P. pekinensis</i>
Phytosterindigitonid	<i>Hoya carnosia</i>
Phytosterines	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Heracleum dissectum</i> , <i>H. lanatum</i> , <i>Lindera</i> <i>akoensis</i> , <i>Polygonum bistorta</i> , <i>Sanguisorba grandiflora</i> , <i>S. officinalis</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>Taraxacum officinale</i>
Phytosterol	<i>Aleurites fordii</i> , <i>Carum carvi</i> , <i>Duchesnea indica</i> , <i>Elettaria cardamomum</i> , <i>Gnaphalium affine</i> , <i>G. arenarium</i> , <i>G. confusum</i> , <i>G. javanum</i> , <i>G. luteo-album</i> , <i>G. multiceps</i> , <i>G. ramigerum</i> , <i>G. tranzschelii</i> , <i>G. uliginosum</i> , <i>Panax quinquefolium</i> , <i>Syzygium aromaticum</i> , <i>Ulmus campestris</i> , <i>U. macrocarpa</i> , <i>U. pumila</i>
Phytotoxin	<i>Jatropha gossypifolia</i> , <i>J. curcas</i>
Picalinal	<i>Alstonia scholaris</i>
Picrasmin	<i>Picrasma quassioides</i>
Picrinine	<i>Alstonia scholaris</i>
Picrorhizin	<i>Picrorhiza kurroa</i>
Pienen acid	<i>Vitex negundo</i>
Pimaradene	<i>Aralia chinensis</i> , <i>A. cordata</i> , <i>A. elata</i>

Component	Source
Pinene	<i>Alpinia officinarum</i> , <i>Artemisia brachyloba</i> , <i>Cinnamomum camphora</i> , <i>C. zeglanicum</i> , <i>Cunninghamia lanceolata</i> , <i>Cyperus rotundus</i> , <i>Elettaria cardamomum</i> , <i>Elsholtzia argyi</i> , <i>E. cristata</i> , <i>E. splendens</i> , <i>E. feddei</i> , <i>E. souliei</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Melaleuca leucadendra</i> , <i>Myristica fragrans</i> , <i>Piper cubeba</i> , <i>Podocarpus macrophyllus</i> , <i>Thuja koraiensis</i> , <i>T. orientalis</i> , <i>T. chinensis</i> , <i>T. vulgaris</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i> , <i>Vitex trifolia</i> , <i>V. rotundifolia</i>
Pinicolic acid	<i>Poria cocos</i>
Pinipicrin	<i>Biota chinensis</i> , <i>B. orientalis</i>
Pinitol	<i>Lespedeza cuneata</i> , <i>Pinus bungeana</i> , <i>P. densiflora</i> , <i>P. koraiensis</i> , <i>P. sylvestris</i> , <i>P. tabulaeformis</i>
Pinnatin	<i>Pongamia pinnata</i>
Pinocarveol	<i>Cinnamomum camphora</i>
Pinoresinol-di- β -D-glycoside	<i>Eucommia ulmoides</i>
Piperamine	<i>Piper nigrum</i>
Piperine	<i>Piper longum</i> , <i>P. nigrum</i>
Piperitone	<i>Cymbopogon distans</i> , <i>C. goeringii</i> , <i>C. nardus</i> , <i>Zanthoxylum bungeanum</i>
Piperonal	<i>Piper nigrum</i>
Plantagin	<i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri</i> , <i>P. major</i>
Plantasan	<i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri</i> , <i>P. major</i>
Plantenolic acid	<i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri</i> , <i>P. major</i>
Plastoquinone	<i>Persicaria orientalis</i>
Plastoquinone-9	<i>Polygonum orientale</i>
Platycodigenic acids	<i>Platycodon autumnalis</i> , <i>P. grandiflorum</i> , <i>P. sinensis</i>
Platycodigenin	<i>Campanula gentianoides</i> , <i>C. grandiflora</i> , <i>Platycodon autumnalis</i> , <i>P. grandiflorum</i> , <i>P. sinensis</i>
Platycodonin	<i>Platycodon autumnalis</i> , <i>P. grandiflorum</i> , <i>P. sinensis</i>
Platycodosides	<i>Platycodon autumnalis</i> , <i>P. grandiflorum</i> , <i>P. sinensis</i>
Platyconin	<i>Platycodon autumnalis</i> , <i>P. grandiflorum</i> , <i>P. sinensis</i>
Plumbagin	<i>Plumbago zeylanica</i>
Plumieric acid	<i>Plumeria rubra</i>
Plumieride	<i>Plumeria rubra</i>
Podocarpene	<i>Podocarpus macrophyllus</i>

Podocarpusflavones	<i>Podocarpus macrophyllus</i>
Podophyllotoxin	<i>Dysosma pleiantha</i> , <i>Podophyllum peltatum</i> , <i>P. pleianthum</i>
Podototarinn	<i>Podocarpus macrophyllus</i>
Polyacetylene	<i>Bidens pilosa</i> , <i>Carum carvi</i> , <i>Glehnia littoralis</i> , <i>Ligusticum jeholense</i> , <i>L. pyrenacum</i> , <i>L. sinense</i> , <i>L. tenuissimum</i>
Polydatin	<i>Polygonum cuspidatum</i>
Polygalacic acid	<i>Platycodon autumnalis</i> , <i>P. grandiflorum</i> , <i>P. sinensis</i> , <i>Solidago dahurica</i> , <i>S. pacifica</i> , <i>S. virgaurea</i>
Polygodiol	<i>Persicaria hydropiper</i>
Polygonin	<i>Polygonum cuspidatum</i>
Polygonone	<i>Persicaria hydropiper</i>
Polyine	<i>Glehnia littoralis</i>
Polyphenols	<i>Hippophae rhamnoides</i> , <i>Thea assamica</i>
Polysaccharides	<i>Acanthopanax giraldii</i> , <i>Achyranthes bidentata</i> , <i>Alisma orientalis</i> , <i>Allium chinense</i> , <i>A. odorum</i> , <i>A. sativum</i> , <i>A. tuberosum</i> , <i>A. uliginosum</i> , <i>Angelica polymorpha</i> , <i>A. sinensis</i> , <i>Astragalus complanatus</i> , <i>A. henryi</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i> , <i>Coriolus</i> <i>versicolor</i> , <i>Epimedium brevicorum</i> , <i>E. koreanum</i> , <i>E. macranthum</i> , <i>Ganoderma lucidum</i> , <i>Glehnia</i> <i>littoralis</i> , <i>Lycium chinense</i> , <i>Ophiopogon japonicus</i> , <i>Rehmannia chinensis</i> , <i>R. glutinosa</i> , <i>Rhus chinensis</i> , <i>R. cotinus</i> , <i>R. javanica</i> , <i>R. osbeckii</i> , <i>Trichosanthes kirilowii</i> , <i>T. uniflora</i>
Polysaccharuperptide	<i>Coriolus versicolor</i>
Polythienyls	<i>Tagetes patula</i>
Ponasterone	<i>Podocarpus macrophyllus</i>
Ponasterone A	<i>Matteuccia struthiopteris</i> , <i>Osmunda japonica</i>
Poncirin	<i>Citrus reticulata</i> , <i>Poncirus trifoliata</i>
Pongapin	<i>Pongamia pinnata</i>
Ponicidine	<i>Rabdosia rubescens</i>
Populin	<i>Populus alba</i> , <i>P. davidiana</i> , <i>P. tomentosa</i>
Populnin	<i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>E. ramosissimum</i>
Portulal	<i>Portulaca grandiflora</i>
Potasium	<i>Laminaria angusta</i> , <i>L. cichorioides</i> , <i>L. japonica</i> , <i>L. longipedalis</i> , <i>L. religiosa</i> , <i>Sargassum pallidum</i>
Potassium hydroxide	<i>Phyllostachys bambusoide</i> , <i>P. nigra</i>

Component	Source
Potassium malate	<i>Hovenia dulcis</i>
Potassium myronate	<i>Brassica alba</i> , <i>B. juncea</i>
Potassium nitrate	<i>Cynoglossum divaricatum</i> , <i>Hovenia dulcis</i>
Potassium oxide	<i>Desmodium triflorum</i> , <i>D. triquetrum</i>
Potassium salts	<i>Portulaca oleracea</i>
Potassium sodium	<i>Portulaca pilosa</i>
Precatorine	<i>Abrus precatorius</i>
Pregnenes	<i>Periploca sepium</i>
Preskinnianine	<i>Dictamnus albus</i> , <i>D. dasycarpus</i>
Primulagenin A	<i>Primula sieboldii</i> , <i>P. asiatica</i> , <i>P. vulgaris</i>
Procurcumenol	<i>Curcuma zedoaria</i> , <i>C. aromatica</i> , <i>C. kwangsiensis</i> , <i>C. longa</i>
Proesapanin A	<i>Caesalpinia sappan</i>
Proline	<i>Litchi chinensis</i>
Prometaphanine	<i>Stephania japonica</i>
Pronuciferine	<i>Nelumbium nuciferum</i> , <i>N. speciosum</i>
Propeimin	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Propionic acid	<i>Ajuga bracteosa</i>
Prosapogenin	<i>Platycodon autumnalis</i> , <i>P. grandiflorum</i> , <i>P. sinensis</i>
Protease	<i>Fagopyrum esculentum</i> , <i>F. sagittatum</i> , <i>Plumbago zeylanica</i>
Proteins	<i>Abutilon theophrasti</i> , <i>A. avicennae</i> , <i>Achyranthes asperia</i> , <i>Aleurites moluccanu</i> , <i>Amaranthus lividus</i> , <i>A. blitum</i> , <i>A. viridis</i> , <i>Arachis hypogaea</i> , <i>Arundo donax</i> , <i>A. phragmites</i> , <i>Artocarpus heterophyllus</i> , <i>Bauhinia championi</i> , <i>B. variegata</i> , <i>Boehmeria densiflora</i> , <i>Campsis adrepens</i> , <i>C. chinensis</i> , <i>C. grandiflora</i> , <i>Castanea crenata</i> , <i>C. mollissima</i> , <i>Coix agrestis</i> , <i>C. chinensis</i> , <i>C. lachryma</i> , <i>Cordyceps sinensis</i> , <i>Dioscorea</i> <i>batatus</i> , <i>Euryale ferox</i> , <i>Ficus awkeotsang</i> , <i>Glycine max</i> , <i>G. soja</i> , <i>Lemnaphyllum microphyllum</i> , <i>Hibiscus</i> <i>rosa-sinensis</i> , <i>H. rhombifolius</i> , <i>Lilium brownii</i> , <i>L. concolor</i> , <i>L. dauricum</i> , <i>L. distichum</i> , <i>L. japonicum</i> , <i>L. lancifolium</i> , <i>L. pumilum</i> , <i>Lycopersicon esculentum</i> , <i>Oxyria digyna</i> , <i>Phragmites communis</i> , <i>Polygonum</i> <i>perfoliatum</i> , <i>P. tinctorium</i> , <i>Polyporus umbellatus</i> , <i>Quercus acutissima</i> , <i>Q. aliena</i> , <i>Q. dentata</i> , <i>Q. liaotungensis</i> , <i>Q. mongolica</i> , <i>Q. variabilis</i> , <i>Triticum vulgare</i> , <i>Trapa bispinosa</i> , <i>Urtica angustifolia</i> , <i>U. cannabina</i> , <i>U. cannabina</i> , <i>U. lobata</i> , <i>U. tenacissima</i> , <i>U. urens</i> , <i>U. utilis</i>

Protein (TAP29)	<i>Trichosanthes kirilowii</i> , <i>T. uniflora</i>
Proteinase	<i>Ganoderma lucidum</i> , <i>Hordeum vulgare</i>
Proto-isoerubosides	<i>Allium chinense</i> , <i>A. odorum</i> , <i>A. sativum</i> , <i>A. tuberosum</i> , <i>A. uliginosum</i>
Protoanemonin	<i>Anemone cernua</i> , <i>A. pulsatilla</i> , <i>Caltha palustris</i> , <i>Pulsatilla ambigua</i> , <i>P. cernua</i> , <i>P. chinensis</i> , <i>Ranunculus chinensis</i> , <i>R. japonicus</i> , <i>R. sarmentosa</i> , <i>R. sceleratus</i>
Protocatechinic acid	<i>Pterocarya stenoptera</i>
Protocatechuic acid	<i>Cirsium albescens</i> , <i>C. brevicaule</i> , <i>C. littorale</i> , <i>C. maakii</i> , <i>C. segetum</i> , <i>C. setosum</i> , <i>C. vlassovianum</i> , <i>Ilex chinensis</i> , <i>Matteuccia struthiopteris</i> , <i>Parietaria micrantha</i> , <i>Polygonum bistorta</i> , <i>Rhododendron mucronatum</i>
Protocatechuic aldehyde	<i>Ilex chinensis</i>
Protoescigenine	<i>Aesculus chinensis</i> , <i>A. hippocastanum</i>
Protohypericin	<i>Hypericum perforatum</i>
Protopine	<i>Chelidonium album</i> , <i>C. hybridum</i> , <i>C. majus</i> , <i>C. serotinum</i> , <i>Corydalis ambigua</i> , <i>C. bungeana</i> , <i>C. decumbens</i> , <i>C. incisa</i> , <i>C. repens</i> , <i>C. ternata</i> , <i>C. turtchaninovii</i> , <i>C. yanhusuo</i> , <i>Macleaya cordata</i> , <i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Protoprimulagenin A	<i>Primula sieboldii</i> , <i>P. asiatica</i> , <i>P. vulgaris</i>
Protostemonine	<i>Stemona japonica</i> , <i>S. tuberosa</i>
Protostephanine	<i>Stephania japonica</i>
Protoveratrine	<i>Hemerocallis flava</i> , <i>Veratrum formosanum</i>
Prudomenin	<i>Prunus mume</i>
Prunasin	<i>Prunus armeniaca</i>
Pseudoaconitine	<i>Aconitium deinoortuzum</i>
Pseudoanisatin	<i>Illicium lanacedatum</i>
Pseudobrucine	<i>Strychnos pierriana</i>
Pseudohypericin	<i>Hypericum triquetrifolium</i> , <i>H. chinensis</i>
Pseudojervine	<i>Hemerocallis flava</i> , <i>Veratrum dahuricum</i> , <i>V. maackii</i> , <i>V. nigrum</i>
Pseudolycorine	<i>Lycoris radiata</i> , <i>L. longituba</i> , <i>L. aura</i>
Pseudomorphine	<i>Papaver somniferum</i>
Pseudopelletierine	<i>Punica granatum</i>
Pseudopurpurin	<i>Rubia chinensis</i> , <i>R. cordifolia</i> , <i>R. mungista</i> , <i>R. sylvatica</i>
Pseudostrychnine	<i>Strychnos pierriana</i>

Component	Source
Psoralen	<i>Dictamnus albus</i> , <i>D. dasycarpus</i> , <i>Ficus carica</i> , <i>Glehnia littoralis</i> , <i>Psoralea corylifolia</i>
Psoralidin	<i>Psoralea corylifolia</i>
Psychotrine	<i>Alangium lamarckii</i>
pterosterone	<i>Matteuccia struthiopteris</i>
Puerarin	<i>Pueraria lobata</i> , <i>P. pseudo-hirsuta</i>
Puqiedinone	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Purpureal glycosides	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Purpurin	<i>Galium bungei</i> , <i>G. spurium</i> , <i>G. verum</i> , <i>Rubia akane</i> , <i>R. chinensis</i> , <i>R. cordifolia</i> , <i>R. mungista</i> , <i>R. sylvatica</i>
Putrescine	<i>Citrus reticulata</i> , <i>Panax ginseng</i>
Pyrocaledol	<i>Salix babylonica</i> , <i>S. matsudana</i> , <i>S. microstachya</i>
Pyrocatechic tannin	<i>Blumea balsumifera</i>
Pyrocatechine acid	<i>Pterocarya stenoptera</i>
Pyrogallol tannin	<i>Ranunculus sceleratus</i>
Pyrrolidine	<i>Daucus carota</i>
Pyrryl--methyl ketone	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Qianhucocumarin	<i>Peucedanum japonicum</i> , <i>P. praeruptorum</i> , <i>P. rubricaula</i>
Quassin	<i>Picrasma quassioides</i>
Querbrachitol	<i>Viscum album</i> , <i>V. coloratum</i>
Quercetagetin	<i>Tagetes patula</i>
Quercetagetrin	<i>Tagetes patula</i>
Quercetin	<i>Apocynum venetum</i> , <i>Aster ageratoides</i> , <i>A. tataricus</i> <i>Astilbe longicarpa</i> , <i>A. chinensis</i> , <i>Campanula glomerata</i> , <i>C. punctata</i> , <i>Cassia alata</i> , <i>Castanea crenata</i> , <i>C. mollissima</i> , <i>Convolvulus arvensis</i> , <i>Coriandrum sativum</i> , <i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i> , <i>Euonymus alatus</i> , <i>E. bungeanus</i> , <i>E. maackii</i> , <i>Geranium dahuricum</i> , <i>G. eriostemon</i> , <i>G. sibiricum</i> , <i>G. wlassowianum</i> , <i>G. wilfordi</i> , <i>Hibiscus mutabilis</i> , <i>Hypericum attenuatum</i> , <i>H. ascyron</i> , <i>H. japonicum</i> , <i>H. perforatum</i> , <i>H. sumpsonii</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i> , <i>Isatis chinensis</i> , <i>I. tinctoria</i> , <i>Jatropha podagrica</i> , <i>Loranthus parasiticus</i> , <i>L. yadoriki</i> , <i>Machilus thunbergii</i> , <i>Persicaria amphibia</i> , <i>P. hydropiper</i> , <i>Pileostegia viburnoides</i> , <i>Pistacia lentiscus</i> , <i>Plumeria rubra</i> , <i>R. ododendron anthopogon</i> , <i>R. dauricum</i> , <i>Thuja koraiensis</i> , <i>T. orientalis</i> , <i>T. chinensis</i> , <i>Viscum album</i>

Quercetin glucoside	<i>Tephrosia purpurea</i>
Quercetin-3-galacto-xylo-glucoside	<i>Prunus padus</i>
Quercetin-3-galactoside	<i>Rumex acetosa</i> , <i>R. acetosella</i> , <i>R. amurensis</i> , <i>R. aquaticus</i> , <i>R. gmelini</i> , <i>R. longifolius</i> , <i>R. maritimus</i> , <i>R. marschallianus</i> , <i>R. stenophyllus</i> , <i>R. thyrsiflorus</i>
Quercetin-4-glucoside	<i>Hibiscus mutabilis</i>
Quercetin-monomethylether	<i>Tamarix juniperina</i>
Quercetol	<i>Rosa multiflora</i>
Quercimeritrin	<i>Hibiscus mutabilis</i> , <i>Melaleuca leucadendra</i> , <i>Persicaria amphibia</i> , <i>P. hydropiper</i> , <i>Polygonum bistorta</i> , <i>P. hydropiper</i>
Quercitin	<i>Celosia argentea</i> , <i>C. cristata</i> , <i>C. margariacea</i> , <i>Ficus carica</i> , <i>Hippophae rhamnoides</i>
Quercitol	<i>Cornus alba</i> , <i>C. kousa</i> , <i>C. macrophylla</i> , <i>Euphorbia hirta</i> , <i>Fagopyrum esculentum</i> , <i>F. sagittatum</i> , <i>Viscum</i> <i>album</i> , <i>V. coloratum</i>
Quercitrin	<i>Biota chinensis</i> , <i>B. orientalis</i> , <i>Dicranopteris linearis</i> , <i>Euphorbia hirta</i> , <i>Ginkgo biloba</i> , <i>Houttynia cordata</i> , <i>Hypericum attenuatum</i> , <i>H. ascyron</i> , <i>H. japonicum</i> , <i>H. perforatum</i> , <i>H. sumpsonii</i> , <i>Loropetalum chinense</i> , <i>Persicaria hydropiper</i> , <i>Saururus chinensis</i> , <i>Solidago canadensis</i>
Quereetin	<i>Astragalus complanatus</i> , <i>A. henyri</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i> , <i>Ginkgo biloba</i>
Quinene	<i>Ledum palustre</i>
Quinic acid	<i>Solidago dahurica</i> , <i>S. pacifica</i> , <i>S. virgaurea</i>
Quinochalone	<i>Carthamus tinctorius</i>
Quinonic substance	<i>Maesa perlaris</i>
Quinonoid	<i>Lithospermum erythrorhizon</i> , <i>L. officinalis</i>
Quinoric acid	<i>Adina rubella</i> , <i>A. ratemosa</i>
Quinuenosides	<i>Panax ginseng</i>
Quisqualic acid	<i>Quisqualis grandiflora</i> , <i>Q. indica</i> , <i>Q. longifolia</i> , <i>Q. loureiri</i> , <i>Q. pubescens</i> , <i>Q. sinensis</i>
r-cadinene	<i>Juniperus rigida</i>
r-glutamyl-valyl-glutamic acid	<i>Juncus effusus</i>
r-linolenic acid	<i>Stellaria media</i>
Racemic acid	<i>Vitis amurensis</i> , <i>V. vinifera</i>
Raddanoside	<i>Anemone raddeana</i> , <i>A. rivularis</i> , <i>A. vitifolia</i>

Component	Source
Raddeanin A	<i>Anemone raddeana</i> , <i>A. rivularis</i> , <i>A. vitifolia</i>
Raffinose	<i>Lycopus lucidus</i> , <i>L. maackianus</i> , <i>L. parviflorus</i> , <i>L. ramosissimus</i> , <i>L. fargesii</i> , <i>L. veitchii</i>
Ramalic acid	<i>Usnea diffracta</i> , <i>U. longissima</i>
Ranunculin	<i>Anemone raddeana</i> , <i>A. rivularis</i> , <i>A. vitifolia</i> , <i>Pulsatilla ambigua</i> , <i>P. cernua</i> , <i>P. chinensis</i> , <i>Ranunculus chinensis</i> , <i>R. sceleratus</i>
Raphanin	<i>Raphanus sativus</i>
Rebaudiosides	<i>Stevia rebaudiana</i>
Rebixanthin	<i>Calendula officinalis</i>
Rehmannin	<i>Rehmannia chinensis</i> , <i>R. glutinosa</i>
Reliculine	<i>Corydalis incisa</i> , <i>C. bungeana</i>
Renifolin	<i>Chimaphila umbellata</i>
Repandusinic acids	<i>Mallotus repandus</i>
Repandusinin	<i>Mallotus repandus</i>
Rerpinenol	<i>Zanthoxylum bungeanum</i>
Reserpine	<i>Chenopodium ambrosioides</i> , <i>Rauwolfia verticillata</i>
Resin	<i>Artocarpus heterophyllus</i> , <i>Caesalpinia pulcherrima</i> , <i>Callicarpa macrophylla</i> , <i>Centella asiatica</i> , <i>Commiphora myrrha</i> , <i>Cornus officinalis</i> , <i>Curculigo capitulata</i> , <i>C. ensifolia</i> , <i>C. malabarica</i> , <i>C. orchiodes</i> , <i>C. stans</i> , <i>Curcuma pallida</i> , <i>C. phaeocoulis</i> , <i>Daemonorops draco</i> , <i>Dodonaea viscosa</i> , <i>Euonymus alatus</i> , <i>E. bungeanus</i> , <i>E. maackii</i> , <i>Ficus awkeotsang</i> , <i>Gnaphalium affine</i> , <i>G. arenarium</i> , <i>G. confusum</i> , <i>G. javanum</i> , <i>G. luteo-album</i> , <i>G. multiceps</i> , <i>G. ramigerum</i> , <i>G. tranzschelii</i> , <i>G. uliginosum</i> , <i>Humulus lupulus</i> , <i>Lappa communis</i> , <i>L. edulis</i> , <i>L. major</i> , <i>L. minor</i> , <i>Lemnaphyllum microphyllum</i> , <i>Lycopus lucidus</i> , <i>L. maackianus</i> , <i>L. parviflorus</i> , <i>L. ramosissimus</i> , <i>L. fargesii</i> , <i>L. veitchii</i> , <i>Macrocarpium officinalis</i> , <i>Mallotus japonicus</i> , <i>Myristica fragrans</i> , <i>Ophiorrhiza japonica</i> , <i>O. mungos</i> , <i>Rhus chinensis</i> , <i>R. cotinus</i> , <i>R. javanica</i> , <i>R. osbeckii</i> , <i>Smilax china</i> , <i>S. nipponica</i> , <i>S. riparia</i> , <i>S. sieboldii</i> , <i>Trichosanthes kirilowii</i> , <i>T. uniflora</i> , <i>Wisteria sinensis</i>
Resin albaspidin	<i>Dryopteris laeta</i> , <i>D. filix-mas</i>
Resinous oil urushiol	<i>Rhus verniciflua</i>
Reticuline	<i>Machilus thunbergii</i>
Retinol	<i>Oxyria digyna</i>

Retroresine	<i>Crotalaria mucronata</i> , <i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosus</i> , <i>T. thunbergii</i>
Rhamnazin	<i>Persicaria hydropiper</i> , <i>Polygonum hydropiper</i>
Rhamnetin	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i>
Rhamnocitrin	<i>Alpinia japonica</i> , <i>Astragalus complanatus</i> , <i>A. henryi</i> , <i>A. hoantchy</i> , <i>A. membranaceus</i> , <i>A. melilotoides</i> , <i>A. mongholicus</i> , <i>A. reflexistipulus</i> , <i>A. sinensis</i>
Rhamnodiastase	<i>Rhamnus davurica</i> , <i>R. parvifolia</i>
Rhamnose	<i>Camellia japonica</i> , <i>Euphorbia hirta</i> , <i>Fagopyrum esculentum</i> , <i>F. sagittatum</i> , <i>Ficus carica</i>
Rhein	<i>Cassia angustifolia</i> , <i>Polygonum multifolium</i> , <i>P. chinensis</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i>
Rhein aurantioobtusin	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i>
Rhein chrysarobin	<i>Cassia alata</i>
Rhein monoglucoside	<i>Cassia angustifolia</i>
Rhodexins	<i>Rhodea japonica</i>
Rhodiololide	<i>Rhodiola elongata</i>
Rhodotoxin	<i>Rhododendron dauricum</i>
Rhoeadine	<i>Papaver rhoeas</i> , <i>P. somniferum</i>
Rhoeagenine	<i>Papaver rhoeas</i>
Rhomotoxin	<i>Rhododendron molle</i>
Rhymohydroquinone	<i>Eupatorium chinense</i> , <i>E. lindleyanum</i> , <i>E. japonicum</i>
Rhynchophylline	<i>Nauclea rhynchophylla</i> , <i>N. sinensis</i> , <i>Uncaria hirsuta</i> , <i>U. rhynchophylla</i>
Riboflavin	<i>Achyranthes aspera</i> , <i>Alpinia katsumadai</i> , <i>A. globosum</i> , <i>A. kumatake</i> , <i>Amaranthus tricolor</i> , <i>A. lividus</i> , <i>A. blitum</i> , <i>A. viridis</i> , <i>Arachis hypogaea</i> , <i>Benincasa cerifera</i> , <i>B. hispida</i> , <i>Boehmeria densiflora</i> , <i>Canarium</i> <i>album</i> , <i>C. sinense</i> , <i>Castanea crenata</i> , <i>C. mollissima</i> , <i>Corylus heterophylla</i> , <i>C. mandshurica</i> , <i>Glycine</i> <i>max</i> , <i>G. soja</i> , <i>Hibiscus rosa-sinensis</i> , <i>H. rhombifolius</i> , <i>Lycopersicon esculentum</i> , <i>Petasites japonicus</i> , <i>Solanum nigrum</i> , <i>Zea mays</i>
Ricinine	<i>Ricinus communis</i>
Ricinolein	<i>Ricinus communis</i>
Robinin	<i>Phaseolus angularis</i> , <i>P. lunatus</i> , <i>P. radiatus</i> , <i>P. vulgaris</i> , <i>Pueraria lobata</i> , <i>P. pseudo-hirsuta</i> , <i>Rauvolfia</i> <i>verticillata</i>

Component	Source
Roemerine	<i>Nelumbium nuciferum</i> , <i>N. speciosum</i>
Rorifamide	<i>Rorippa indica</i> , <i>R. islandica</i> , <i>R. montana</i>
Rorifone	<i>Rorippa indica</i> , <i>R. islandica</i> , <i>R. montana</i>
Rosenoxide	<i>Rosa rugosa</i>
Rotenone	<i>Milletia reticulata</i> , <i>M. taiwaniana</i> , <i>Tephrosia purpurea</i>
Rotundone	<i>Cyperus rotundus</i>
Rotunol	<i>Cyperus rotundus</i>
Rovidine	<i>Catharanthus roseus</i>
Roxburghine D	<i>Acacia catechu</i>
Rechts-lupinine	<i>Lupinus luteus</i>
Rubescensine B	<i>Rabdosia rubescens</i>
Rubescensins	<i>Rabdosia lasiocarpus</i>
Rubiadin-I-methyl ether	<i>Morinda citrifolia</i> , <i>M. officinalis</i>
Rubichloric acid	<i>Morinda citrifolia</i> , <i>M. officinalis</i>
Rubierhythrinic acid	<i>Rubia chinensis</i> , <i>R. cordifolia</i> , <i>R. mungista</i> , <i>R. sylvatica</i>
Rubijervine	<i>Veratrum dahuricum</i> , <i>V. maackii</i> , <i>V. nigrum</i>
Rubricauloside	<i>Peucedanum japonicum</i> , <i>P. praeruptorum</i> , <i>P. rubricaula</i>
Rubrierythrinic acid	<i>Galium bungei</i> , <i>G. spurium</i> , <i>G. verum</i> , <i>Rubia akane</i>
Rutaecarpine	<i>Evodia rutaecarpa</i>
Rutin	<i>Abutilon theophrasti</i> , <i>A. avicennae</i> , <i>Cassia alata</i> , <i>Cirsium albescens</i> , <i>C. brevicaule</i> , <i>C. littorale</i> , <i>C. maakii</i> , <i>C. segetum</i> , <i>C. setosum</i> , <i>C. vlassovianum</i> , <i>Cucumis sativus</i> , <i>Coriandrum sativum</i> , <i>Fagopyrum esculentum</i> , <i>F. sagittatum</i> , <i>F. tataricum</i> , <i>Ficus carica</i> , <i>Firmiana simplex</i> , <i>Forsythia suspensa</i> , <i>Ginkgo biloba</i> , <i>Hibiscus mutabilis</i> , <i>Hydrangea macrophylla</i> , <i>Jatropha podagrica</i> , <i>Prunella vulgaris</i> , <i>Sophora japonica</i> , <i>Tephrosia purpurea</i> , <i>Tussilago farfara</i>
s-guaiazulene	<i>Artemisia lactiflora</i>
Sabinene	<i>Elettaria cardamomum</i> , <i>Ledum palustre</i> , <i>Piper cubeba</i> , <i>Zanthoxylum bungeanum</i>
Saccharase	<i>Solanum indicum</i>
Saccharides	<i>Cordyceps sinensis</i>
Saccharose	<i>Trachycarpus wagnerianus</i> , <i>T. fortunei</i>

Safflomin A	<i>Carthamus tinctorius</i>
Safflower yellow	<i>Carthamus tinctorius</i>
Saflrole	<i>Asarum canadense</i> , <i>A. heterotropoides</i> , <i>A. sieboldii</i> , <i>Illicium verum</i> , <i>Magnolia biloba</i> , <i>M. denudata</i> , <i>M. discolor</i> , <i>M. liliflora</i> , <i>M. purpurea</i> , <i>Myristica fragrans</i>
Saikosaponins	<i>Bupleurum chinense</i> , <i>B. falcatum</i> , <i>B. scorzoneraefolium</i>
Salicarin	<i>Lythrum salicaria</i>
Salicifoline	<i>Magnolia biloba</i> , <i>M. denudata</i> , <i>M. discolor</i> , <i>M. grandiflora</i> , <i>M. liliflora</i> , <i>M. purpurea</i> , <i>Michelia alba</i> , <i>M. figo</i>
Salicin	<i>Populus alba</i> , <i>P. davidiana</i> , <i>P. tomentosa</i>
Salicinase	<i>Populus alba</i> , <i>P. davidiana</i> , <i>P. tomentosa</i>
Salicortin	<i>Populus alba</i> , <i>P. davidiana</i> , <i>P. tomentosa</i>
Salicylic acid	<i>Calendula officinalis</i> , <i>Gaultheria leucocarpa</i> , <i>Pterocarya stenoptera</i> , <i>Scopalia dulcis</i>
Salidroside	<i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>
Saligenin glucoside	<i>Salix babylonica</i> , <i>S. matsudana</i> , <i>S. microstachya</i>
Salireposide	<i>Populus alba</i> , <i>P. davidiana</i> , <i>P. tomentosa</i>
Salsolidine	<i>Salsola collina</i>
Salsoline	<i>Salsola collina</i>
Saluianin	<i>Salvia coccinea</i>
Salvigenin	<i>Eupatorium odoratum</i>
Salviol	<i>Salvia miltiorhiza</i>
Sanguinarine	<i>Macleaya cordata</i> , <i>Papaver somniferum</i>
Sanguisorbins	<i>Sanguisorba grandiflora</i> , <i>S. officinalis</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i>
Sanjoinines	<i>Ziziphus jujuba</i> , <i>Z. spinosa</i>
Sanshol	<i>Xanthoxylum piperitum</i>
Santalallic acid	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Santalal	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Santalone	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Santamarine	<i>Eupatorium formosanum</i>
Santene	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Sapnons	<i>Gynura japonica</i> , <i>G. pinnatifida</i> , <i>G. segetum</i> , <i>Syringa dilatata</i> , <i>S. oblata</i> , <i>S. reticulata</i> , <i>S. suspensa</i> , <i>S. vulgaris</i>

Component**Source**

Sapogenins
Saponaretin

Bupleurum chinense, *B. falcatum*, *B. scorzoneraefolium*
Fagopyrum esculentum, *F. sagittatum*, *Hibiscus sabdariffa*, *Thalictrum ichangense*, *T. glandulissimum*,
Trigonella foenum-graecum

Saponarin
Saponartin-4'-O-glucoside
Saponin

Hibiscus chinensis, *H. syriacus*, *H. trionum*, *H. rhombifolius*, *Saponaria officinalis*, *S. vaccaria*
Uraria crinita, *U. lagopodiodes*
Acacia nemu, *Achyranthes aspera*, *A. japonica*, *Adenophora coronopifolia*, *A. paniculata*, *A. pereskiaefolia*,
A. polymorpha, *A. remotiflora*, *A. stenanthina*, *A. tetraphylla*, *Adina rubella*, *A. ratemosa*, *Aleurites fordii*,
Alternanthera philoxeroides, *A. sessilis*, *Anemone cernua*, *A. pulsatilla*, *Arenaria juncea*, *A. serpyllifolia*,
Arisaema amurense, *A. consanguineum*, *A. erubescens*, *A. heterophyllum*, *A. peninsulae*, *A. thunbergii*,
Aster tataricus, *Astragalus complanatus*, *A. henryi*, *A. hoantchy*, *A. membranaceus*, *A. melilotoides*,
A. mongholicus, *A. reflexistipulus*, *A. sinensis*, *Caesalpinia decapetula*, *C. sappan*, *Caltha palustris*,
Campanula gentianoides, *C. grandiflora*, *Centipeda minima*, *Cephalanoplos segetum*, *Chenopodium*
ambrosioides, *Clematis chinensis*, *C. florida*, *C. hexapetala*, *C. minor*, *C. sinensis*, *C. terniflora*, *Crataegus*
chlorusarica, *C. dahurica*, *C. cuneata*, *C. maximowiczii*, *C. pentagyna*, *C. pinnatifida*, *C. sanguinea*,
Delonix regia, *Dictamnus albus*, *D. dasycarpus*, *Dioscorea bulbifera*, *Eclipta erecta*, *Elephantopus elatus*,
E. grandiflorus, *Euphorbia esula*, *E. helioscopia*, *Gentiana algida*, *G. barbata*, *G. manshurica*,
G. olivieri, *G. scabra*, *G. squarrosa*, *G. triflora*, *Gleditsia horrida*, *G. sinensis*, *G. xylocarpa*, *Gomphrena*
globosa, *Hibiscus sabdariffa*, *Lonicera acuminata*, *L. apodonta*, *L. brachypoda*, *L. japonica*, *L. confusa*,
L. hypoglauca, *L. chinensis*, *L. flexuosa*, *L. maackii*, *Loranthus parasiticus*, *L. yadoriki*, *Luffa aegyptiaca*,
L. cylindrica, *L. faetida*, *L. petola*, *Marsdenia tenacissima*, *Nephelium longana*, *N. lappaceum*, *Panax*
japonicum, *P. notogineng*, *P. zingiberensis*, *Phytolacca acinosa*, *P. americana*, *P. japonica*, *P. kaempferi*,
P. octandra, *P. pekinensis*, *Polygala japonica*, *P. sibirica*, *P. tatarinowii*, *Pulsatilla ambigua*, *P. cernua*,
P. chinensis, *Rhododendron anthopogon*, *Salix babylonica*, *S. matsudana*, *S. microstachy*, *Sesbinia sesbin*,
Sapindus mukorossi, *Smilax china*, *S. nipponica*, *S. sieboldii*, *S. riparia*, *Solanum nigrum*, *Thalictrum*
foetidum, *Trichosanthes kirilowii*, *T. uniflora*, *Trigonella foenum-graecum*, *Tussilago farfara*, *Vernonia*
andersonii, *V. cinerea*, *V. patula*, *Xanthoxylum piperitum*, *Ziziphus jujuba*, *Z. spinosa*

Saponin akebin
Saponin alpha-methylester
Saponin beta-methylester

Clematis armandii, *C. heraclei*
Achyranthes aspera
Achyranthes aspera

Sarcostin	<i>Cynanchum paniculatum</i> , <i>Marsdenia tenacissima</i>
Sarmentosin	<i>Sedum erythrostichum</i> , <i>S. kamschaticum</i> , <i>S. verticillatum</i>
Sarmentoslin	<i>Sedum sarmentosum</i>
Sarmutoside	<i>Strophanthus divaricatus</i>
Sarolactone	<i>Hypericum attenuatum</i> , <i>H. ascyron</i> , <i>H. japonicum</i> , <i>H. perforatum</i> , <i>H. sumpsonii</i>
Sarothamine	<i>Cytisus scoparius</i>
Sarracine	<i>Senecio argunensis</i> , <i>S. nemorensis</i> , <i>S. scandens</i>
Sarsasapogenin	<i>Anemarrhena asphodeloides</i> , <i>Arnebia euchroma</i>
Sativol	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Saturated acids	<i>Viola acuminata</i> , <i>V. alisoviana</i> , <i>V. collina</i> , <i>V. dissecta</i> , <i>V. mandshurica</i> , <i>V. patrini</i> , <i>V. prionantha</i> , <i>V. verecunda</i>
Saussurine	<i>Aucklandia costus</i> , <i>A. lappa</i> , <i>Saussurea japonica</i> , <i>S. lappa</i>
Savinin	<i>Acanthopanax sessiliflorus</i>
Schisantherins	<i>Schisandra arisanensis</i> , <i>S. sphenanthera</i>
Schizandr	<i>Schisandra chinensis</i>
Schizandrin	<i>Schisandra chinensis</i>
Schizandrol	<i>Schisandra chinensis</i>
Sciadopitysin	<i>Podocarpus macrophyllus</i>
Scopanol	<i>Scopolia dulcis</i>
Scoparin	<i>Cytisus scoparius</i>
Scoparon	<i>Artemisia capillaris</i>
Scoplin	<i>Physochlaina infundibularis</i>
Scopolamine	<i>Datura alba</i> , <i>D. fastuosa</i> , <i>D. innoxia</i> , <i>D. metel</i> , <i>D. stramonium</i> , <i>D. suaveolens</i> , <i>D. tatula</i> , <i>Physochlaina infundibularis</i> , <i>Scopolia tangutica</i>
Scopoletin	<i>Angelica amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i> , <i>Artemisia gmelini</i> , <i>Bidens tripartita</i> , <i>Caltha palustris</i> , <i>Carum carvi</i> , <i>Coriandrum sativum</i> , <i>Erycibe henryi</i> , <i>E. aenea</i> , <i>Ilex pubescens</i> , <i>Impatiens balsamina</i> , <i>I. noli-tangere</i> , <i>I. textori</i> , <i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i> , <i>Nerum indicum</i> , <i>Physochlaina infundibularis</i> , <i>Viburnum sargentii</i>
Scopoline	<i>Erycibe henryi</i> , <i>E. aenea</i> , <i>Nerum indicum</i>
Scopolomine	<i>Hyoscyamus bohemicus</i>
Scoulerine	<i>Corydalis incisa</i> , <i>C. bungeana</i>
Scrophularin	<i>Scrophularia buergeriana</i> , <i>S. kakudensis</i> , <i>S. ningpoensis</i> , <i>S. oldhami</i> , <i>S. puergeriana</i>

Component	Source
Scutellarein heteroside	<i>Thymus amurensis</i> , <i>T. disjunctus</i> , <i>T. kitagawianus</i> , <i>T. komarovii</i> , <i>T. przewalskii</i> , <i>T. quinquecostatus</i>
Scutellarin	<i>Salvia chinensis</i> , <i>S. pogonocalyx</i> , <i>S. przewalskii</i>
Sebiferic acid	<i>Sepium sebiferum</i> , <i>S. discolor</i>
Secalose	<i>Avena fatua</i>
Secologanin	<i>Menyanthes trifoliata</i>
Securinine	<i>Securinega suffruticosa</i>
Securinol	<i>Securinega suffruticosa</i>
Securitinine	<i>Securinega suffruticosa</i>
Sedocaulin	<i>Sedum aizoon</i>
Sedocitrin	<i>Sedum aizoon</i>
Sedoflorin	<i>Sedum aizoon</i>
Sedoheptose	<i>Sedum lineare</i> , <i>S. erythrostichum</i> , <i>S. kamschaticum</i> , <i>S. verticillatum</i>
Sedooheptulose	<i>Sedum aizoon</i>
Selinene	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Sempervirine	<i>Gelsemium elegans</i> , <i>G. sempervirens</i>
Senecionine	<i>Senecio vulgaris</i>
Sennosides	<i>Cassia angustifolia</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i>
Seratonin	<i>Ranunculus sceleratus</i>
Serine	<i>Litchi chinensis</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Serotonin	<i>Hippophae rhamnoides</i> , <i>Musa paradisiaca</i>
Serpentine	<i>Rauvolfia verticillata</i>
Serratenediol	<i>Lycopodium annotinum</i> , <i>L. cernum</i> , <i>L. compianatum</i>
Sesamin	<i>Sesamum indicum</i>
Sesamol	<i>Sesamum indicum</i>
Sesquijasmine	<i>Jasminum samba</i>
Sesquiligans	<i>Arctium lappa</i>
Sesquiterpene	<i>Alpinia officinarum</i> , <i>Artemisia annua</i> , <i>A. apiacea</i> , <i>Curcuma longa</i> , <i>Cyperus rotundus</i> , <i>Dryobalanops aromatica</i> , <i>D. camphora</i> , <i>Ginkgo biloba</i> , <i>Hedychium coronarium</i> , <i>Jasminum samba</i> , <i>Melaleuca leucadendra</i> , <i>Nardostachys jatamansi</i> , <i>Xanthoxylum piperitum</i>

Sesquiterpene alcohol	<i>Blumea balsumifera</i> , <i>Melaleuca leucadendra</i>
Sesquiterpene alkaloids	<i>Euonymus alatus</i> , <i>E. bungeanus</i> , <i>E. maackii</i>
Sesquiterpene glucosides	<i>Achillea alpina</i> , <i>A. millefolium</i> , <i>Anthriscus aemula</i> , <i>A. sylvestris</i> , <i>Heracleum dissectum</i> , <i>H. lanatum</i> , <i>Polygonum bistorta</i> , <i>Sanguisorba officinalis</i> , <i>S. grandiflora</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i> , <i>Taraxacum officinale</i>
Sesquiterpine lactones	<i>Eupatorium formosanum</i>
Shanzhiside	<i>Gardenia florida</i> , <i>G. grandiflora</i> , <i>G. maruba</i> , <i>G. pictorum</i> , <i>G. radicans</i>
Shibuol	<i>Diospyros chinensis</i> , <i>D. costata</i> , <i>D. khaki</i> , <i>D. lotus</i> , <i>D. roxburgii</i>
Shikimic acid	<i>Ginkgo biloba</i> , <i>Illicium lanacedatum</i>
Shikonin	<i>Arnebia euchroma</i> , <i>Lithospermum erythrorhizon</i> , <i>L. officinalis</i>
Shionon	<i>Aster tataricus</i>
Shisonin	<i>Solanum lyratum</i> , <i>S. melongena</i>
Shobakunine	<i>Mahonia japonica</i>
Silica	<i>Phyllostachys bambusoide</i> , <i>P. nigra</i>
Silicic acid	<i>Desmodium triflorum</i> , <i>D. triquetrum</i> , <i>Plumbago zeylanica</i>
Silybin	<i>Silybum marianum</i>
Silybinomer	<i>Silybum marianum</i>
Silyckristin	<i>Silybum marianum</i>
Silydiamin	<i>Silybum marianum</i>
Silymarin	<i>Silybum marianum</i>
Simiarenol	<i>Imperata arundinaceae</i> , <i>I. cylindrica</i>
Simplexine	<i>Phyllanthus simplex</i>
Sinactine	<i>Cocculus diversifolius</i> , <i>C. thunbergii</i> , <i>Sinomenium acutum</i>
Sinalbine	<i>Sinapis alba</i>
Sinapic acid	<i>Brassica alba</i> , <i>B. juncea</i> , <i>Impatiens balsamina</i> , <i>I. noli-tangere</i> , <i>I. textori</i>
Sinapine	<i>Brassica alba</i> , <i>B. juncea</i>
Sinapyl aldehyde	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Sinigrin	<i>Brassica alba</i> , <i>B. juncea</i> , <i>Thlaspi arvense</i>
Sinigroside	<i>Cardamine leucantha</i> , <i>C. lyrata</i>
Sinoacutine	<i>Cocculus diversifolius</i> , <i>C. thunbergii</i> , <i>Sinomenium acutum</i>

Component	Source
Sinocecatine	<i>Corydalis incisa</i> , <i>C. bungeana</i>
Sinodiosgenin	<i>Dioscorea opposita</i>
Sinomenine	<i>Cocculus diversifolius</i> , <i>C. thunbergi</i> , <i>Menispermum dauricum</i> , <i>Sinomenium acutum</i>
Sinoside	<i>Strophanthus divaricatus</i>
Sinostroside	<i>Strophanthus divaricatus</i>
Sioimperatorin	<i>Angelica decursiva</i> .
Sioquercitrin	<i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>
Siosakuranetin	<i>Clinopodium chinense</i> , <i>C. polycephalum</i> , <i>C. gracile</i> , <i>C. umbrosum</i>
Sitosterol	<i>Arundinaria graminifolia</i> , <i>Centella asiatica</i> , <i>Elaeagnus oldhumii</i> , <i>Ficus carica</i> , <i>Nuphar japonicum</i> , <i>N. pumilum</i> , <i>Punica granatam</i> , <i>Syzygium aromaticum</i> , <i>Ulmus campestris</i> , <i>U. macrocarpa</i> , <i>U. pumila</i>
Sitosteryl glucopyranosid	<i>Elaeagnus oldhumii</i>
Sitosteryl-o-β-d-glucoside	<i>Spilanthes acmella</i>
Skimmianine	<i>Dictamnus albus</i> , <i>D. dasycarpus</i> , <i>Glycosmis cochinchinensis</i> , <i>G. pentaphylla</i> , <i>Zanthoxylum nitidum</i> , <i>Z. schinifolium</i> , <i>Z. ailanthoides</i>
Skullcapflavones	<i>Scutellaria baicalensis</i> , <i>S. grandiflora</i> , <i>S. lanceolaria</i> , <i>S. macrantha</i> , <i>S. rivulararis</i> , <i>S. viscidula</i>
Slliptinone	<i>Plumbago zeylanica</i>
Sloeemodin	<i>Rumex patientia</i>
Smilacin	<i>Smilax china</i> , <i>S. nipponica</i> , <i>S. sieboldii</i> , <i>S. riparia</i>
Solamargine	<i>Solanum incanum</i>
Solanidine	<i>Solanum indicum</i>
Solanigrines	<i>Solanum nigrum</i>
Solanine	<i>Solanum indicum</i> , <i>S. lyratum</i> , <i>S. melongena</i>
Solanocapsin	<i>Solanum capsicastrum</i>
Solanocapsine	<i>Solanum pseudo-capsicum</i>
Solasodine	<i>Solanum indicum</i> , <i>S. lyratum</i> , <i>S. melongena</i>
Solasonine	<i>Solanum aculeatissimum</i> , <i>S. verbascifolium</i>
Solasurine	<i>Solanum aculeatissimum</i>
Sophorabioside	<i>Sophora japonica</i>
Sophoradin	<i>Sophora subprostrata</i>

Sophoradiol	<i>Sophora japonica</i>
Sophoraflavonoside	<i>Sophora japonica</i>
Sophoranochromene	<i>Sophora subprostrata</i>
Sophoranone	<i>Sophora subprostrata</i>
Sophoricoside	<i>Sophora japonica</i>
Soranjudiol	<i>Morinda citrifolia</i> , <i>M. officinalis</i>
Sotelsuflavone	<i>Cycas revoluta</i> , <i>Selaginella tamarisina</i>
Sparteine	<i>Chelidonium album</i> , <i>C. hybridum</i> , <i>C. majus</i> , <i>C. serotinum</i> , <i>Cytisus scoparius</i>
Spathulenol	<i>Artemisia lactiflora</i>
Spemine	<i>Panax ginseng</i>
Spermindine	<i>Panax ginseng</i>
Sphenone A	<i>Sphenomeris chusana</i>
Spilanthol	<i>Spilanthes acmella</i>
Spinasterol	<i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i> , <i>Platycodon autumnalis</i> , <i>P. grandiflorum</i> , <i>P. sinensis</i>
Spirostanol saponins	<i>Paris polyphylla</i>
Spongesterol	<i>Angelica decursiva</i>
Squalene	<i>Abrus precatorius</i> , <i>Taraxacum officinale</i>
Stachydrine	<i>Chrysanthemum cinerariaefolium</i> , <i>C. jucundum</i> , <i>C. koraiense</i> , <i>C. morifolium</i> , <i>C. sinense</i> , <i>Citrus reticulata</i> , <i>Leonurus heterophyllus</i> , <i>L. japonicus</i> , <i>L. macranthus</i> , <i>L. mongolicus</i> , <i>L. pseudo-macranthus</i> , <i>Pyrethrum</i> <i>cinerariifolium</i> , <i>P. sinense</i> , <i>Solanum lyratum</i> , <i>S. melongena</i>
Stachydrine chloride	<i>Stachys chinensis</i> , <i>S. baicalensis</i> , <i>S. japonica</i>
Stachyose	<i>Isatis chinensis</i> , <i>I. chinensis</i> , <i>I. tinctoria</i> , <i>Lycopus lucidus</i> , <i>L. maackianus</i> , <i>L. parviflorus</i> , <i>L. ramosissimus</i> , <i>L. fargesii</i> , <i>L. veitchii</i>
Starch	<i>Pteris cretica</i> , <i>P. ensiformis</i> , <i>P. multifida</i> , <i>P. vittata</i> , <i>P. wallichiana</i> , <i>Pseudostellaria heterophylla</i> , <i>Tulipa</i> <i>edulis</i> , <i>T. gesneriana</i>
Stauntonin	<i>Stauntonia hexaphylla</i>
Stearic acid	<i>Aleurites fordii</i> , <i>Angelica grosserrata</i> , <i>Ajuga bracteosa</i> , <i>Benincasa cerifera</i> , <i>B. hispida</i> , <i>Citrullus anguria</i> , <i>C. edulis</i> , <i>C. lanatus</i> , <i>C. vulgaris</i> , <i>Coix agrestis</i> , <i>C. chinensis</i> , <i>C. lachryma</i> , <i>Corchorus capsularis</i> , <i>C. olitorius</i> , <i>Cucumis sativus</i> , <i>Jatropha gossypifolia</i> , <i>J. curcas</i> , <i>Melia azedarach</i> , <i>M. toosendan</i> , <i>M. japonica</i> , <i>Myristica fragrans</i> , <i>Sonchus arvensis</i> , <i>S. oleraceus</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Stearin acid	<i>Ricinus communis</i> , <i>Sesamum indicum</i>

Component	Source
Stemonidine	<i>Stemona japonica</i> , <i>S. tuberosa</i>
Stemonine	<i>Stemona japonica</i> , <i>S. tuberosa</i>
Stephanine	<i>Stephania japonica</i>
Stephanoline	<i>Stephania japonica</i>
Stepharine	<i>Menispermum dauricum</i> , <i>Stephania sinica</i>
Stepharotine	<i>Stephania sinica</i>
Stephisoferuline	<i>Stephania hernendifolia</i>
Stepholidine	<i>Menispermum dauricum</i>
Stepinonine	<i>Stephania japonica</i>
Steponine	<i>Stephania japonica</i>
Stereoisomer	<i>Arctium lappa</i>
Steroid alkaloid glycosides	<i>Solanum biflorum</i>
Steroid glycosides	<i>Periploca sepium</i> , <i>Sesbinia sesbin</i>
Steroid saponins	<i>Allium chinense</i> , <i>A. odorum</i> , <i>A. sativum</i> , <i>A. tuberosum</i> , <i>A. uliginosum</i> , <i>Anemarrhena asphodeloides</i> , <i>Arnebia euchroma</i>
Steroid saponin POD-II	<i>Polygonatum chinense</i> , <i>P. cirrhifolium</i> , <i>P. macropodium</i> , <i>P. odoratum</i> , <i>P. officinale</i> , <i>P. sibiricum</i> , <i>P. stenophyllum</i> , <i>P. vulgare</i>
Sterol	<i>Cordyceps sinensis</i> , <i>Cucurbita moschata</i> , <i>C. pepo</i> , <i>Cucumis melo</i> , <i>Cypripedium guttatum</i> , <i>C. macranthum</i> , <i>C. pubescens</i> , <i>C. sativus</i> , <i>Fibraurea recisa</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Momordica charantia</i>
Steviolbioside	<i>Stevia rebaudiana</i>
Stevioside	<i>Stevia rebaudiana</i>
Stigmast-7-enol	<i>Menyanthes trifoliata</i>
Stigmasterol	<i>Adina rubella</i> , <i>A. ratemosa</i> , <i>Aletris formosuna</i> , <i>A. spicata</i> , <i>Aleurites fordii</i> , <i>Arundinaria graminifolia</i> , <i>Bauhinia championi</i> , <i>Cirsium chinense</i> , <i>C. japonicum</i> , <i>Codonopsis lanceolata</i> , <i>C. pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i> , <i>Cuscuta chinensis</i> , <i>C. europaea</i> , <i>C. japonica</i> , <i>C. lupuliformis</i> , <i>Dioscorea bulbifera</i> , <i>Eclipta</i> <i>erecta</i> , <i>Glehnia littoralis</i> , <i>Linum stelleroides</i> , <i>L. usitatissimum</i> , <i>Matteuccia struthiopteris</i> , <i>Nervilia</i> <i>purpurea</i> , <i>Oldenlandia chrysotricha</i> , <i>O. corymbosa</i> , <i>O. diffusa</i> , <i>Ophiopogon japonicus</i> , <i>Papaver</i> <i>somniferum</i> , <i>Rubus coreanus</i> , <i>R. crataegifolius</i> , <i>R. matsumuranus</i> , <i>R. saxatilis</i> , <i>Schizonepeta multifida</i> , <i>S. tenuifolia</i> , <i>Spilanthes acmella</i> , <i>Syzygium aromaticum</i>

Strophalloside	<i>Antiaris toxicaris</i>
Strophantidin	<i>Apocynum venetum</i> , <i>Corchorus olitorius</i>
Strospeside	<i>Digitalia purpurea</i> , <i>D. sanguinalis</i>
Strumaroside	<i>Xanthium chinense</i> , <i>X. japonicum</i> , <i>X. mongolicum</i> , <i>X. sibiricum</i> , <i>X. strumarium</i>
Strychnine	<i>Strychnos nux-vomica</i> , <i>S. pierriana</i>
Stylopine	<i>Chelidonium album</i> , <i>C. hybridum</i> , <i>C. majus</i> , <i>C. serotinum</i>
Styracin	<i>Styrax tonkinensis</i> , <i>S. benzoin</i>
Succinacid	<i>Cynomorium coccineum</i> , <i>C. songarium</i>
Succinic acid	<i>Angelica polymorpha</i> , <i>A. sinensis</i> , <i>Geranium dahuricum</i> , <i>G. eriostemon</i> , <i>G. sibiricum</i> , <i>G. wlassowianum</i> , <i>G. wilfordi</i> , <i>Maytenus diversifolia</i> , <i>M. confertiflorus</i> , <i>Prunus mume</i> , <i>Sarcandra glabra</i> , <i>Typhonium giganteum</i>
Sucrose	<i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i> , <i>Eriobotrya japonica</i> , <i>Nephelium longana</i> , <i>N. lappaceum</i>
Sumaresinolic acid	<i>Styrax tonkinensis</i> , <i>S. benzoin</i>
Swertiamarin	<i>Swertia pseudochinensis</i>
Swertifrancheside	<i>Swertia pseudochinensis</i>
Swertisin	<i>Swertia pseudochinensis</i>
Sworoside	<i>Cornus officinalis</i>
Synephrine	<i>Citrus aurantium</i>
Syringareinol	<i>Eleutherococcus senticosus</i>
Syringaresinol	<i>Acanthopanax giraldii</i> , <i>A. sessiliflorus</i>
Syringic acid	<i>Ailanthus altissima</i> , <i>Maytenus diversifolia</i> , <i>M. confertiflorus</i> , <i>Rhododendron mucronatum</i>
Syringic aldehyde	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Syringin	<i>Jasminum mesnyi</i> , <i>J. nudiflorum</i> , <i>Lonicera acuminata</i> , <i>L. apodonta</i> , <i>L. brachypoda</i> , <i>L. japonica</i> , <i>L. confusa</i> , <i>L. hypoglauca</i> , <i>L. chinensis</i> , <i>L. flexuosa</i> , <i>L. maackii</i> , <i>Syringa dilatata</i> , <i>S. oblata</i> , <i>S. reticulata</i> , <i>S. suspensa</i> , <i>S. vulgaris</i>
Tadeonal	<i>Persicaria hydropiper</i> , <i>Polygonum hydropiper</i>
Tagetone	<i>Tagetes erecta</i> , <i>T. patula</i>
Talatisamine	<i>Aconitum austroyunnanense</i> , <i>A. balfourii</i> , <i>A. barbatum</i> , <i>A. carmichaelii</i> , <i>A. chasmanthum</i> , <i>A. chinense</i> , <i>A. deinorrhizum</i> , <i>A. fischeri</i> , <i>A. jaluense</i> , <i>A. koreanum</i> , <i>A. kusnezoffii</i> , <i>A. laciniatum</i> , <i>A. napellus</i> , <i>A. pariculigerum</i> , <i>A. praeparata</i> , <i>A. vilmorinianum</i> , <i>A. volubile</i>

Component	Source
Talictrine	<i>Thalictrum ichangense</i> , <i>T. glandulissimum</i>
Tangeratin	<i>Citrus aurantium</i>
Tannates	<i>Ophiorrhiza japonica</i> , <i>O. mungos</i>
Tannic acid	<i>Acalypha australis</i> , <i>Acanthopanax gracilistylus</i> , <i>A. spinosum</i> , <i>Caesalpinia sappan</i> , <i>Coriandrum sativum</i> , <i>Cornus officinalis</i> , <i>Eclipta erecta</i> , <i>Erigeron canadensis</i> , <i>E. annuus</i> , <i>Hedera rhombea</i> , <i>H. helix</i> , <i>Hieracium umbellatum</i> , <i>Ilex chinensis</i> , <i>Macrocarpium officinalis</i> , <i>Rabdosia rubescens</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>R. undulatum</i> , <i>R. koreanum</i> , <i>Thea assamica</i> , <i>T. bohea</i> , <i>T. cantoniensis</i> , <i>T. chinensis</i> , <i>T. cochinchinensis</i> , <i>T. sinensis</i> , <i>T. viridis</i> , <i>Vitex nequundo</i>
Tannins	<i>Acacia catechu</i> , <i>A. nemu</i> , <i>Agrimonia eupatoria</i> , <i>A. pilosa</i> , <i>A. viscidula</i> , <i>Aleurites fordii</i> , <i>Alternanthera philoxeroides</i> , <i>A. sessilis</i> , <i>Arethusa japonica</i> , <i>Artemisia brachyloba</i> , <i>Aspidium falcatum</i> , <i>Callicarpa macrophylla</i> , <i>Caesalpinia pulcherrima</i> , <i>Centella asiatica</i> , <i>Cleome spinosa</i> , <i>C. gynandra</i> , <i>C. viscosa</i> , <i>Curculigo capitulata</i> , <i>C. ensifolia</i> , <i>C. malabarica</i> , <i>C. orchiodes</i> , <i>C. stans</i> , <i>Desmodium triflorum</i> , <i>D. triquetrum</i> , <i>Dioscorea bulbifera</i> , <i>D. cirrhosa</i> , <i>D. hispida</i> , <i>D. japonica</i> , <i>Dodonaea viscosa</i> , <i>Geranium dahuricum</i> , <i>G. eriostemon</i> , <i>G. sibiricum</i> , <i>G. wlassowianum</i> , <i>G. wilfordi</i> , <i>Jasminum mesnyi</i> , <i>J. nudiflorum</i> , <i>Hippophae rhamnoides</i> , <i>Lappa communis</i> , <i>L. edulis</i> , <i>L. major</i> , <i>L. minor</i> , <i>Lonicera acuminata</i> , <i>L. apodonta</i> , <i>L. brachypoda</i> , <i>L. chinensis</i> , <i>L. confusa</i> , <i>L. flexuosa</i> , <i>L. hypoglauca</i> , <i>L. japonica</i> , <i>L. maackii</i> , <i>Lythrum salicaria</i> , <i>Mallotus japonicus</i> , <i>Matricaria chamomilla</i> , <i>Nephelium longana</i> , <i>N. lappaceum</i> , <i>Morinda citrifolia</i> , <i>M. officinalis</i> , <i>Photinia serrulata</i> , <i>Polygonum aviculare</i> , <i>P. lapidosa</i> , <i>P. manshuriensis</i> , <i>P. vivipara</i> , <i>Populus alba</i> , <i>P. davidiana</i> , <i>P. tomentosa</i> , <i>Portulaca pilosa</i> , <i>Prunus persica</i> , <i>Pteris cretica</i> , <i>P. ensiformis</i> , <i>P. multifida</i> , <i>P. vittata</i> , <i>P. wallichiana</i> , <i>Pyrrosia adnascens</i> , <i>Ranunculus ternatus</i> , <i>Rhus semialata</i> , <i>Scopalia dulcis</i> , <i>Smilax china</i> , <i>S. nipponica</i> , <i>S. sieboldii</i> , <i>S. riparia</i> , <i>Tamarindus indicus</i> , <i>Terminalia chebula</i> , <i>T. wagnerianus</i> , <i>Trachycarpus fortunei</i> , <i>Tussilago farfara</i> , <i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i> , <i>Verbena officinalis</i> , <i>V. oxysepalum</i>
Tanshinol	<i>Salvia miltiorhiza</i>
Tanshinone	<i>Salvia miltiorhiza</i>
Taraxacerin	<i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Taraxacin	<i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Taraxanthin	<i>Cuscuta australis</i> , <i>Tussilago farfara</i>

Taraxasterol	<i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i> , <i>Sonchus arvensis</i> , <i>S. oleraceus</i> , <i>Taraxacum formosanum</i> , <i>T. mongolicum</i> , <i>T. sinicum</i>
Taraxasteryl acetate	<i>Forsythia suspensa</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i>
Taraxasteryl palmitate	<i>Forsythia suspensa</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>I. linariaefolia</i> , <i>I. salsoloides</i>
Taraxerol	<i>Acanthopanax trifoliatum</i> , <i>Alnus japonica</i> , <i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i> , <i>Euphorbia hirta</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Taraxerone	<i>Adenophora triphylla</i> , <i>A. verticillata</i> , <i>Euphorbia hirta</i> , <i>Spatholobus suberectus</i>
Taraxeryl acetate	<i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>C. ussuriensis</i>
Taraxol	<i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Taraxsteryl acetate	<i>Cirsium chinense</i> , <i>C. japonicum</i>
Tartaric acid	<i>Chaenomeles japonica</i> , <i>C. sinensis</i> , <i>C. speciosa</i> , <i>Cornus officinalis</i> , <i>Cydonia sinensis</i> , <i>Eriobotrya japonica</i> , <i>Macrocarpium officinalis</i> , <i>Nephelium longana</i> , <i>N. lappaceum</i> , <i>Oxalis corniculata</i> , <i>O. corymbosa</i> , <i>Prunus mume</i> , <i>Pyrrosia adnascens</i> , <i>Sonchus arvensis</i> , <i>S. oleraceus</i> , <i>Vitis amurensis</i> , <i>V. vinifera</i>
Taspine	<i>Caulophyllum robustum</i>
Taurine	<i>Gelidium amansii</i>
Taxettin	<i>Zephyranthes candida</i>
Taxifolin	<i>Pistacia lentiscus</i>
Taxinine E	<i>Taxus cuspidata</i> , <i>T. chinensis</i> , <i>T. yunnanensis</i>
Taxol	<i>Taxus cuspidata</i> , <i>T. chinensis</i> , <i>T. yunnanensis</i>
Tazettine	<i>Hippeastrum hybridum</i> , <i>Lycoris radiata</i> , <i>L. longituba</i> , <i>L. aurea</i> , <i>Narcissus tazetta</i>
Tectoridin	<i>Belamcanda chinensis</i> , <i>B. paniculata</i> , <i>Iris aphylla</i> , <i>I. batatas</i> , <i>I. dichotoma</i>
Tenuidine	<i>Polygala japonica</i> , <i>P. sibirica</i> , <i>P. tatarinowii</i>
Tenuifolin	<i>Polygala japonica</i> , <i>P. sibirica</i> , <i>P. tatarinowii</i>
Tephrosin	<i>Tephrosia purpurea</i>
Teresantalic	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Teresantalol	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Terpene	<i>Amomum cardamomum</i> , <i>A. globosum</i> , <i>A. tsao-ko</i> , <i>A. illosum</i> , <i>A. xanthioides</i> , <i>Aquilegia buergeriana</i> , <i>A. parviflora</i> , <i>Artemisia brachyloba</i> , <i>Cyperus brevifolius</i> , <i>C. difformis</i> , <i>C. glomeratus</i> , <i>C. iria</i> , <i>C. rotundus</i> , <i>Elsholtzia argyi</i> , <i>E. cristata</i> , <i>E. splendens</i> , <i>E. feddei</i> , <i>E. souliei</i> , <i>Liquidambar styraciflua</i> , <i>L. formosana</i> , <i>L. maximowiczii</i> , <i>Rabdosia lasiocarpus</i>

Component	Source
Terpeneol	<i>Erigeron canadensis</i> , <i>E. annuus</i>
Terpenylacetate	<i>Vitex trifolia</i> , <i>V. rotundifolia</i>
Terpinen-4-ol	<i>Thymus vulgaris</i>
Terpinene	<i>Coriandrum sativum</i> , <i>Elettaria cardamomum</i> , <i>Juniperus rigida</i>
Terpinenol-4	<i>Artemisia argyi</i> , <i>A. halodendron</i> , <i>A. igniaria</i> , <i>A. indica</i> , <i>A. integrifolia</i> , <i>A. japonica</i> , <i>A. keiskeana</i> , <i>A. lagocephala</i> , <i>A. lavandulaefolia</i> , <i>A. scoparia</i> , <i>A. selengensis</i> , <i>A. sieversiana</i> , <i>A. vulgarts</i>
Terpineol	<i>Cunninghamia lanceolata</i> , <i>Dryobalanops aromatica</i> , <i>D. camphora</i> , <i>Elettaria cardamomum</i> , <i>Myristica</i> <i>fragrans</i> , <i>Piper cubeba</i>
Terpinol	<i>Melaleuca leucadendra</i>
Terpinolene	<i>Coriandrum sativum</i> , <i>Cryptotaenia japonica</i> , <i>C. canadensis</i> , <i>Oenothera javanica</i> , <i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Teteracyclic acid	<i>Rosa acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i>
Tetra-hydrocannabinol	<i>Cannabis chinensis</i> , <i>C. sativa</i>
Tetraacetylbrasilin	<i>Caesalpinia sappan</i>
Tetradecen-4-oic acid	<i>Lindera obtusiloba</i>
Tetragonin	<i>Tetragonia tetragonoides</i>
Tetrahydrocolumbamine	<i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtschaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i>
Tetrahydrocoptisine	<i>Corydalis ambigua</i> , <i>C. repens</i> , <i>C. turtschaninovii</i> , <i>C. yanhusuo</i> , <i>C. ternata</i>
Tetrahydroharman	<i>Elaeagnus pungens</i> , <i>E. umbellata</i>
Tetrahydroxy flavone	<i>Xanthium chinense</i> , <i>X. japonicum</i> , <i>X. mongolicum</i> , <i>X. sibiricum</i> , <i>X. strumarium</i>
Tetramethylpyrazine	<i>Ligusticum chuanjiang</i>
Tetramethylpyrazinesteroids	<i>Jatropha podagrica</i>
Tetrandrine	<i>Menispermum dauricum</i>
Tetulinic acid	<i>Scopalia dulcis</i>
Thalfoetidine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. foetidum</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Thalicarpine	<i>T. halictrum</i> , <i>T. ichangense</i> , <i>T. glandulissimum</i>
Thalidasine	<i>T. halictrum</i> , <i>T. ichangense</i> , <i>T. glandulissimum</i>
Thalidezine.BP	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>

Thalpinine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. foetidum</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Thalpine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. foetidum</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Theasaponin	<i>Camellia japonica</i>
Thebaine	<i>Papaver somniferum</i>
Thelic simidine	<i>Thalictrum aquilegifolium</i> , <i>T. baicalense</i> , <i>T. fauriei</i> , <i>T. petaloideum</i> , <i>T. simplex</i> , <i>T. squarrosum</i> , <i>T. thunbergii</i>
Theobromine	<i>Thea assamica</i> , <i>T. bohea</i> , <i>T. cantoniensis</i> , <i>T. chinensis</i> , <i>T. cochinchinensis</i> , <i>T. sinensis</i> , <i>T. viridis</i>
Theophylline	<i>Thea assamica</i> , <i>T. bohea</i> , <i>T. cantoniensis</i> , <i>T. chinensis</i> , <i>T. cochinchinensis</i> , <i>T. sinensis</i> , <i>T. viridis</i>
Theronine	<i>Litchi chinensis</i>
Theveside	<i>Thevetia peruviana</i>
Thevetin A	<i>Thevetia peruviana</i>
Thevetin B	<i>Thevetia peruviana</i>
Theviridoside	<i>Thevetia peruviana</i>
Thiamine	<i>Achyranthes asperia</i> , <i>Aleurites moluccana</i> , <i>Alpinia katsumadai</i> , <i>A. globosum</i> , <i>A. kumatake</i> , <i>Amaranthus lividus</i> , <i>A. blitum</i> , <i>A. tricolor</i> , <i>A. viridis</i> , <i>Arachis hypogaea</i> , <i>Benincasa cerifera</i> , <i>B. hispida</i> , <i>Boehmeria densiflora</i> , <i>Canarium album</i> , <i>C. sinense</i> , <i>Castanea crenata</i> , <i>C. mollissima</i> , <i>Corylus heterophylla</i> , <i>C. mandshurica</i> , <i>Glycine max</i> , <i>G. soja</i> , <i>Hibiscus rosa-sinensis</i> , <i>H. rhombifolius</i> , <i>Lycopersicon esculentum</i> , <i>Petasites japonicus</i> , <i>Zea mays</i>
Threonin	<i>Avena fatua</i>
Threonine	<i>Oryza sativa</i>
Thujone	<i>Biota chinensis</i> , <i>B. orientalis</i> , <i>Elettaria cardamomum</i> , <i>Thuja koraiensis</i> , <i>T. orientalis</i> , <i>T. chinensis</i>
Thymol	<i>Eucalyptus robusta</i> , <i>Thymus amurensis</i> , <i>T. disjunctus</i> , <i>T. kitagawianus</i> , <i>T. komarovii</i> , <i>T. przewalskii</i> , <i>T. quinquecostatus</i>
Tienmulmine	<i>Veratrum dahuricum</i> , <i>V. maackii</i> , <i>V. nigrum</i>
Tienmulminine	<i>Veratrum dahuricum</i> , <i>V. maackii</i> , <i>V. nigrum</i>
Tiglic acid	<i>Angelica pubescens</i> , <i>Ajuga bracteosa</i> , <i>Matricaria chamomilla</i>
Tigloidine	<i>Physalis alkekengi</i>
Tigogenin	<i>Costus speciosus</i> , <i>Smilax china</i> , <i>S. nipponica</i> , <i>S. sieboldii</i> , <i>S. riparia</i>

Component	Source
Tirucallol	<i>Euphorbia kansui</i>
Tithymalin	<i>Euphorbia esula</i> , <i>E. helioscopia</i>
Tocopherol	<i>Calendula officinalis</i>
Tohogenol	<i>Lycopodium annotinum</i> , <i>L. cernum</i> , <i>L. compianatum</i>
Tomentogenin	<i>Cynanchum paniculatum</i> .
Toosendanin	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Toralacton	<i>Cassia nomame</i> , <i>C. obtusifolia</i> , <i>C. tora</i>
Torosachryson	<i>Cassia occidentalis</i> , <i>C. torosa</i>
Totarol	<i>Podocarpus macrophyllus</i>
Tracheloside	<i>Trachelospermum jasminoides</i>
<i>trans</i> - β -farnesene	<i>Artemisia lactiflora</i>
<i>trans</i> -aconitic acid	<i>Actaea asiatica</i>
<i>trans</i> -beta-ocimene	<i>Cryptotaenia japonica</i> , <i>C. canadensis</i>
<i>trans</i> -caryophyllene	<i>Artemisia lactiflora</i>
Trehalose	<i>Selaginella involvens</i> , <i>S. doederleinii</i> , <i>S. tamarisina</i>
Tremulacin	<i>Populus alba</i> , <i>P. davidiana</i> , <i>P. tomentosa</i>
Triboline	<i>Cocculus laurifolius</i> , <i>C. sarmentosus</i> , <i>C. trilobus</i>
Trichosanthin	<i>Trichosanthes kirilowii</i> , <i>T. uniflora</i>
Tricin	<i>Medicago falcata</i> , <i>M. lupulina</i> , <i>M. polymorpha</i> , <i>M. ruthenica</i> , <i>M. sativa</i>
Tricycloekasantal	<i>Santalum album</i> , <i>S. myrtifolium</i> , <i>S. verum</i>
Trifolin	<i>Campanula glomerata</i> , <i>C. punctata</i> , <i>Melochia corchorifolia</i>
Trifolioside	<i>Menyanthes trifoliata</i>
Trifolirhizin	<i>Sophora alopecuroides</i> , <i>S. flavescens</i>
Triglyceride	<i>Livistona chinensis</i>
Trigonelline	<i>Abrus precatorius</i> , <i>Avena fatua</i> , <i>Cannabis chinensis</i> , <i>C. sativa</i> , <i>Dictamnus albus</i> , <i>D. dasycarpus</i> , <i>Quisqualis grandiflora</i> , <i>Q. indica</i> , <i>Q. longifolia</i> , <i>Q. loureiri</i> , <i>Q. pubescens</i> , <i>Q. sinensis</i> , <i>Solanum lyratum</i> , <i>S. melongena</i> , <i>Tetragonia tetragonoides</i> , <i>Trigonella foenum-graecum</i>
Trihydroxytriptolide	<i>Tripterygium wilfordi</i>
Trillarin	<i>Trillium camschatcense</i>

Trillin	<i>Dioscorea nipponica</i> , <i>Trillium camschatcense</i>
Trilobamine	<i>Cocculus laurifolius</i> , <i>C. sarmentosus</i> , <i>C. trilobus</i>
Tripchilorolide	<i>Tripterygium wilfordii</i>
Tripeptide	<i>Juncus effusus</i>
Triptein	<i>Tripterygium wilfordii</i>
Triptolide	<i>Tripterygium hypoglaucum</i> , <i>T. wilfordii</i>
Tripdiolide	<i>Tripterygium wilfordi</i>
Tripdioltonide	<i>Tripterygium wilfordi</i>
Triptolidenol	<i>Tripterygium wilfordi</i>
Triptonide	<i>Tripterygium wilfordi</i>
Triptophenolide	<i>Tripterygium wilfordii</i>
Triterpene acid	<i>Rosa acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i>
Triterpene glycosides	<i>Acanthopanax giraldii</i> , <i>Sesbinia sesbin</i>
Triterpenes	<i>Alisma orientalis</i> , <i>Artocarpus altilis</i> , <i>Sedum formosanum</i>
Triterpenoid saponins	<i>Bupleurum chinense</i> , <i>B. falcatum</i> , <i>B. scorzoneraefolium</i> , <i>Glycyrrhiza pallidiflora</i> , <i>G. uralensis</i>
Triterpenoids	<i>Clematis armandii</i> , <i>C. heracleifolia</i> , <i>Ganoderma lucidum</i> , <i>Mussaenda parviflora</i> , <i>Panax ginseng</i> , <i>Pulsatilla chinensis</i> , <i>Vernonia andersonii</i> , <i>V. cinerea</i> , <i>V. patula</i>
Tryptanthrin	<i>Baphicanthus cusia</i> , <i>Clerodendrum cyrtophyllum</i>
Tryptophane	<i>Dolichos lablab</i> , <i>Oryza sativa</i>
Tsudzuic acid	<i>Lindera obtusiloba</i>
Tubulosine	<i>Alangium lamackii</i>
Tuduranine	<i>Cocculus diversifolius</i> , <i>C. thunbergii</i> , <i>Sinomenium acutum</i> , <i>Stephania sinica</i>
Tumulosic acid	<i>Poria cocos</i>
Turmerone	<i>Curcuma aromatica</i> , <i>C. kwangsiensis</i> , <i>C. zedoaria</i>
Tymol	<i>Thymus vulgaris</i>
Tyramine	<i>Viscum album</i>
Tyrosine	<i>Dioscorea opposita</i> , <i>Dolichos lablab</i> , <i>Ficus carica</i> , <i>Oryza sativa</i> , <i>Typhonium giganteum</i>
Ucarvone	<i>Asarum canadense</i> , <i>A. heterotropoides</i> , <i>A. sieboldii</i>
Ugenol	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i>

Component	Source
Umbelliferone	<i>Angelica decursiva</i> , <i>A. pubescens</i> , <i>Artemisia gmelini</i> , <i>Bidens tripartita</i> , <i>Caltha palustris</i> , <i>Carum carvi</i> , <i>Coriandrum sativum</i> , <i>Daucus carota</i> , <i>Melilotus alba</i> , <i>M. suaveolens</i> , <i>M. indica</i> , <i>Peucedanum japonicum</i> , <i>P. praeruptorum</i> , <i>P. rubricaulis</i>
Umbelliprenin	<i>Anethum graveoleus</i> , <i>Angelica decursiva</i>
Unsaturated acids	<i>Viola acuminata</i> , <i>V. alisoviana</i> , <i>V. collina</i> , <i>V. dissecta</i> , <i>V. mandshurica</i> , <i>V. patrini</i> , <i>V. prionantha</i> , <i>V. verecunda</i>
Uracil	<i>Angelica polymorpha</i> , <i>A. sinensis</i> , <i>Typhonium giganteum</i>
Urbenine	<i>Coptis chinensis</i> , <i>C. japonica</i> , <i>C. teeta</i>
Urea	<i>Castanea crenata</i> , <i>C. mollissima</i> , <i>Portulaca pilosa</i>
Urease	<i>Canavalia gladiata</i> , <i>C. ensiformis</i> , <i>Ficus carica</i> , <i>Fagopyrum esculentum</i> , <i>F. sagittatum</i>
Uronic acid	<i>Abutilon avicennae</i> , <i>A. theophrasti</i> , <i>Tamarindus indicus</i>
Ursolic acid	<i>Anredera cordifolia</i> , <i>Chimaphila umbellata</i> , <i>Clinopodium chinense</i> , <i>C. polycephalum</i> , <i>C. gracile</i> , <i>C. umbrosum</i> , <i>Crataegus cuneata</i> , <i>C. chlorusarca</i> , <i>C. dahurica</i> , <i>C. maximowiczii</i> , <i>C. pentagyna</i> , <i>C. pinnatifida</i> , <i>C. sanguinea</i> , <i>Cynomorium coccineum</i> , <i>C. songarium</i> , <i>Ilex chinensis</i> , <i>I. pubescens</i> , <i>Ligustrum lucidum</i> , <i>L. japonicum</i> , <i>Melaleuca leucadendra</i> , <i>Nerum indicum</i> , <i>Oldenlandia chrysotricha</i> , <i>O. corymbosa</i> , <i>O. diffusa</i> , <i>Plantago asiatica</i> , <i>P. depressa</i> , <i>P. exaltata</i> , <i>P. loureiri</i> , <i>P. major</i> , <i>Prunella vulgaris</i> , <i>Punica granatam</i> , <i>Rubus coreanus</i> , <i>R. crataegifolius</i> , <i>R. matsumuranus</i> , <i>R. saxatilis</i> , <i>Solanum incanum</i> , <i>Thymus amurensis</i> , <i>T. disjunctus</i> , <i>T. kitagawianus</i> , <i>T. komarovii</i> , <i>T. przewalskii</i> , <i>T. quinquecostatus</i>
Ursone	<i>Vaccinium bracteatum</i> , <i>V. vitis-idaea</i>
Usaramine	<i>Crotalaria mucronata</i>
Ushinsunine	<i>Michelia alba</i> , <i>M. figo</i>
Usigtoercin	<i>Hypericum perforatum</i>
Usnic acid	<i>Usnea diffracta</i> , <i>U. longissima</i>
Uvaol	<i>Osmanthus fragrans</i>
Vaccarin	<i>Vaccaria segetalis</i> , <i>V. pyramidata</i>
Vaccaroside	<i>Vaccaria segetalis</i> , <i>V. pyramidata</i>
Valeraldehyde	<i>Melaleuca leucadendra</i>
Valerenone	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>

Valerianic acid	<i>Melia japonica</i> , <i>M. toosendan</i> , <i>M. azedarach</i>
Valerianol	<i>Valeriana alternifolia</i> , <i>V. amurensis</i> , <i>V. fauriei</i> , <i>V. subbipinnatifolia</i>
Valeric acid	<i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i>
Valine	<i>Linum stelleroides</i> , <i>L. usitatissimum</i> , <i>Litchi chinensis</i> , <i>Oryza sativa</i> , <i>Typhonium giganteum</i>
Vallarine	<i>Centella asiatica</i>
Vanillic acid	<i>Ailanthus altissima</i> , <i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. selago</i> , <i>L. serratum</i> , <i>Matteuccia struthiopteris</i> , <i>Picrorhiza kurroa</i> , <i>Rhododendron mucronatum</i>
Vanillin	<i>Ferula assa-foetida</i> , <i>F. bungeana</i> , <i>Gastrodia elata</i> , <i>Styrax tonkinensis</i> , <i>S. benzoin</i>
Vanillyl alcohol	<i>Gastrodia elata</i>
Vellosimine	<i>Rauvolfia verticillata</i>
Venoterpine	<i>Camptotheca acuminata</i>
Veratramine	<i>Veratrum formosanum</i>
Veratrine alkaloids	<i>Rhododendron sinensis</i>
Verbenalin	<i>Verbena officinalis</i> , <i>V. oxysepalum</i>
Verbenalol	<i>Verbena officinalis</i> , <i>V. oxysepalum</i>
Veronicastroside	<i>Veronica sibirica</i> , <i>V. undulata</i>
Vertiaflavone	<i>Thevetia peruviana</i>
Verticine	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Verticinine	<i>Fritillaria anheunensis</i> , <i>F. collicola</i> , <i>F. maximowiczii</i> , <i>F. roylei</i> , <i>F. thunbergii</i> , <i>F. ussuriensis</i> , <i>F. verticillata</i>
Vilmorianines	<i>Aconitum barbatum</i> , <i>A. austroyunnanense</i>
Vinblastine	<i>Catharanthus roseus</i>
Vincristine	<i>Catharanthus roseus</i>
Vindolinine	<i>Catharanthus roseus</i>
Vinrosidine	<i>Catharanthus roseus</i>
Violaxanthin	<i>Calendula officinalis</i> , <i>Rumex acetosa</i> , <i>R. acetosella</i> , <i>R. amurensis</i> , <i>R. aquaticus</i> , <i>R. gmelini</i> , <i>R. longifolius</i> , <i>R. maritimus</i> , <i>R. marschallianus</i> , <i>R. stenophyllus</i> , <i>R. thyrsoflorus</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Viroallosecurinine	<i>Securinega virosa</i>
Virosecurinin	<i>Securinega virosa</i>
Virosine	<i>Securinega virosa</i>

Component	Source
Vitamin A	<i>Acanthopanax gracilistylus</i> , <i>A. spinosum</i> , <i>Capsella bursa-pastoris</i> , <i>Citrus deliciosa</i> , <i>C. nobilis</i> , <i>Gastrodia elata</i> , <i>Leonurus heterophyllus</i> , <i>L. japonicus</i> , <i>L. macranthus</i> , <i>L. mongolicus</i> , <i>L. pseudo-macranthus</i> , <i>Litchi chinensis</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Lycopersicon esculentum</i> , <i>Nephelium longana</i> , <i>N. lappaceum</i> , <i>Phaseolus angularis</i> , <i>P. lunatus</i> , <i>P. radiatus</i> , <i>P. vulgaris</i> , <i>Portulaca oleracea</i> , <i>Sesamum indicum</i> , <i>Taraxacum officinale</i> , <i>Triticum vulgare</i>
Vitamin B	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i> , <i>Citrus deliciosa</i> , <i>C. nobilis</i> , <i>Hordeum vulgare</i> , <i>Litchi chinensis</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Nephelium longana</i> , <i>N. lappaceum</i> , <i>Phaseolus angularis</i> , <i>P. lunatus</i> , <i>P. radiatus</i> , <i>P. vulgaris</i> , <i>Portulaca oleracea</i> , <i>Sagittardia sagittifolia</i> , <i>Sesamum indicum</i> , <i>Tamarindus indicus</i> , <i>T. officinale</i> , <i>Triticum vulgare</i>
Vitamin B ₁	<i>Cannabis chinensis</i> , <i>C. sativa</i> , <i>Gnaphalium affine</i> , <i>G. arenarium</i> , <i>G. confusum</i> , <i>G. javanum</i> , <i>G. luteo-album</i> , <i>G. multiceps</i> , <i>G. ramigerum</i> , <i>G. tranzschelii</i> , <i>G. uliginosum</i>
Vitamin B ₂	<i>Cannabis chinensis</i> , <i>C. sativa</i> , <i>Phaseolus angularis</i> , <i>P. lunatus</i> , <i>P. radiatus</i> , <i>P. vulgaris</i>
Vitamin B ₁₂	<i>Angelica polymorpha</i> , <i>A. sinensis</i>
Vitamin C	<i>Actinidia arguta</i> , <i>A. chinensis</i> , <i>A. japonica</i> , <i>A. kolomikta</i> , <i>A. polygama</i> , <i>Agrimonia eupatoria</i> , <i>A. pilosa</i> , <i>A. viscidula</i> , <i>Blumea lacera</i> , <i>Chaenomeles japonica</i> , <i>C. sinensis</i> , <i>C. speciosa</i> , <i>Citrus deliciosa</i> , <i>C. nobilis</i> , <i>Cydonia sinensis</i> , <i>Cypripedium guttatum</i> , <i>C. macranthum</i> , <i>C. pubescens</i> , <i>Euphorbia coraroides</i> , <i>E. lasiocaula</i> , <i>E. lunulata</i> , <i>E. pallasii</i> , <i>E. pekinensis</i> , <i>E. sampsoni</i> , <i>E. sieboldiana</i> , <i>Fortunella crassifolia</i> , <i>F. japonica</i> , <i>F. margarita</i> , <i>Hieracium umbellatum</i> , <i>Hippophae rhamnoides</i> , <i>Hordeum vulgare</i> , <i>Litchi chinensis</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Lycium barbarum</i> , <i>L. megistocarpum</i> , <i>L. ovatum</i> , <i>L. trewianum</i> , <i>L. turbinatum</i> , <i>Oxalis corriculaza</i> , <i>O. corymbosa</i> , <i>Phyllanthus emblica</i> , <i>P. virgatus</i> , <i>Rumex acetosa</i> , <i>R. acetosella</i> , <i>R. amurensis</i> , <i>R. aquaticus</i> , <i>R. gmelini</i> , <i>R. longifolius</i> , <i>R. maritimus</i> , <i>R. marschallianus</i> , <i>R. stenophyllus</i> , <i>R. thyrsoflorus</i> , <i>Solanum nigrum</i> , <i>Spiraea salicifolia</i> , <i>Taraxacum officinale</i> , <i>Viscum album</i> , <i>V. coloratum</i>
Vitamin E	<i>Angelica polymorpha</i> , <i>A. sinensis</i> , <i>Hippophae rhamnoides</i> , <i>Lactuca raddeana</i> , <i>L. indica</i> , <i>L. sativa</i> , <i>Polygonum aviculare</i> , <i>P. lapidosa</i> , <i>P. manshuriensis</i> , <i>P. vivipara</i> , <i>Triticum vulgare</i> , <i>Viscum album</i> , <i>V. coloratum</i>
Vitamin G	<i>Triticum vulgare</i>
Vitamin K	<i>Agrimonia eupatoria</i> , <i>A. pilosa</i> , <i>A. viscidula</i>
Vitamins	<i>Amaranthus lividus</i> , <i>A. blitum</i> , <i>A. viridis</i> , <i>Ananas comosus</i> , <i>Juncus effusus</i> , <i>Lemnaphyllum microphyllum</i> , <i>Rosa acicularis</i> , <i>R. amygdalifolia</i> , <i>R. davurica</i> , <i>R. koreana</i> , <i>R. laevigata</i> , <i>R. maximowicziana</i>

Vitex	<i>Trigonella foenum-graecum</i>
Vitexicarpin	<i>Vitex trifolia</i> , <i>V. rotundifolia</i>
Vitexin	<i>Crotalaria mucronata</i> , <i>Fagopyrum esculentum</i> , <i>F. sagittatum</i> , <i>Hibiscus sabdariffa</i> , <i>Jatropha podagrica</i> , <i>Lythrum salicaria</i> , <i>Persicaria orientalis</i> , <i>Polygonum orientale</i> , <i>Rumex acetosa</i> , <i>R. acetosella</i> , <i>R. amurensis</i> , <i>R. aquaticus</i> , <i>R. gmelini</i> , <i>R. longifolius</i> , <i>R. maritimus</i> , <i>R. marschallianus</i> , <i>R. stenophyllus</i> , <i>R. thyrsiflorus</i> , <i>Uaria crinita</i> , <i>U. lagopodiodes</i> , <i>Zanthoxylum nitidum</i>
Vitexin cycloartenol	<i>Linum stelleroides</i> , <i>L. usitatissimum</i>
Vitexin-7-glucoside	<i>Trigonella foenum-graecum</i>
Vitexin-7-O-glucoside	<i>Uaria crinita</i> , <i>U. lagopodiodes</i>
Vitrexin-4-O-xyloside	<i>Crotalaria mucronata</i>
Vitricine	<i>Vitex trifolia</i> , <i>V. rotundifolia</i>
Volatile carbonyl	<i>Ranunculus ternatus</i>
Volatile oil	<i>Caesalpinia decapetula</i> , <i>Chenopodium ambrosioides</i> , <i>Cleome spinosa</i> , <i>C. gynandra</i> , <i>C. viscosa</i> , <i>Curcuma pallida</i> , <i>C. phaeocoulis</i> , <i>Duchesnea indica</i> , <i>Eupatorium chinense</i> , <i>E. lindleyanum</i> , <i>E. japonicum</i> , <i>Gardenia angusta</i> , <i>G. jasminoides</i> , <i>Matnolia grandiflora</i> , <i>Matricaria chamomilla</i> , <i>Piper longum</i> , <i>Thymus amurensis</i> , <i>T. disjunctus</i> , <i>T. kitagawianus</i> , <i>T. komarovii</i> , <i>T. przewalskii</i> , <i>T. quinquecostatus</i>
Volatile phenols	<i>Ranunculus ternatus</i>
Vomicine	<i>Strychnos pierriana</i>
Vomifliol	<i>Ilex pubescens</i>
Wedolactone	<i>Eclipta erecta</i>
Wikstroemin	<i>Wikstroemia indica</i>
Wilfordine	<i>Euonymus alatus</i> , <i>E. bungeanus</i> , <i>E. maackii</i> , <i>Tripterygium wilfordii</i>
Wilsonine	<i>Cephalotaxus fortunei</i> , <i>C. qinensis</i> , <i>C. oliveri</i> , <i>C. wilsoniana</i>
Wognoside	<i>Scutellaria baicalensis</i> , <i>S. grandiflora</i> , <i>S. lanceolaria</i> , <i>S. macrantha</i> , <i>S. rivulararis</i> , <i>S. viscidula</i>
Wogonin	<i>Scutellaria baicalensis</i> , <i>S. grandiflora</i> , <i>S. lanceolaria</i> , <i>S. macrantha</i> , <i>S. rivulararis</i> , <i>S. viscidula</i>
Woodorien	<i>Woodwardia japonica</i>
Woodwardic acid	<i>Woodwardia japonica</i>
Worenine	<i>Coptis chinensis</i> , <i>C. japonica</i> , <i>C. teeta</i>
Xanthine	<i>Thea assamica</i> , <i>T. bohea</i> , <i>T. cantoniensis</i> , <i>T. chinensis</i> , <i>T. cochinchinensis</i> , <i>T. sinensis</i> , <i>T. viridis</i>
Xanthanol	<i>Xanthium chinense</i> , <i>X. japonicum</i> , <i>X. mongolicum</i> , <i>X. sibiricum</i> , <i>X. strumarium</i>

Component	Source
Xanthinin	<i>Xanthium chinense</i> , <i>X. japonicum</i> , <i>X. mongolicum</i> , <i>X. sibiricum</i> , <i>X. strumarium</i>
Xanthoagathin	<i>Sesbinia grandiflora</i>
Xanthophyllepoxyl	<i>Avena fatua</i> , <i>Caltha palustris</i>
Xanthoplanine	<i>Zanthoxylum schinifolium</i>
Xanthorin	<i>Cassia occidentalis</i> , <i>C. torosa</i>
Xanthotoxine	<i>Angelica amurensis</i> , <i>A. anomala</i> , <i>A. dahurica</i> , <i>Heracleum lanatum</i> ,
Xanthoxylene	<i>Zanthoxylum schinifolium</i>
Xanthoxylin	<i>Sepium sebiferum</i> , <i>S. discolor</i>
Xanthoxylinin	<i>Xanthoxylum piperitum</i>
Xanthum	<i>Xanthium chinense</i> , <i>X. japonicum</i> , <i>X. mongolicum</i> , <i>X. sibiricum</i> , <i>X. strumarium</i>
Xylopurarin	<i>Pueraria lobata</i> , <i>P. pseudo-hirsuta</i>
Xylose	<i>Juncus communis</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i> , <i>L. faetida</i> , <i>L. petola</i> , <i>Tamarindus indicus</i>
Y-sitosterol	<i>Ajuga bracteosa</i>
Yatanoside	<i>Brucea javanica</i> , <i>B. sumatrana</i>
Yejuhualactone	<i>Chrysanthemum boreale</i> , <i>C. indicum</i> , <i>C. lavandulaefolium</i> , <i>C. procumbens</i> , <i>C. tripartium</i>
Ylangene	<i>Eugenia aromatica</i> , <i>E. caryophyllata</i> , <i>E. ulmoides</i>
Yuanhuacine	<i>Daphne fortunei</i> , <i>D. genkwa</i>
Yuanhuafine	<i>Daphne fortunei</i> , <i>D. genkwa</i>
Yuanhuatine	<i>Daphne fortunei</i> , <i>D. genkwa</i>
Yunnanxana	<i>Taxus cuspidata</i> , <i>T. chinensis</i> , <i>T. yunnanensis</i>
Z-guggulsterol	<i>Commiphora myrrha</i>
Zanthaline	<i>Papaver somniferum</i>
Zeaxanthin	<i>Lycium barbarum</i> , <i>L. megistocarpum</i> , <i>L. ovatum</i> , <i>L. trewianum</i> , <i>L. turbinatum</i> , <i>Physalis alkekengi</i> , <i>Taraxacum mongolicum</i> , <i>T. sinicum</i>
Zederone	<i>Curcuma aromatica</i> , <i>C. kwangsiensis</i> , <i>C. longa</i> , <i>C. zedoaria</i>
Zedoarin	<i>Curcuma pallida</i> , <i>C. phaeocoulis</i>
Zerumbone	<i>Curcuma zedoaria</i> , <i>C. aromatica</i> , <i>C. kwangsiensis</i> , <i>Zingiber zerumbet</i>
Zerumbone epoxide	<i>Zingiber zerumbet</i>
Zi Yu glucoside I	<i>Sanguisorba officinalis</i> , <i>S. grandiflora</i> , <i>S. parviflora</i> , <i>S. x tenuifolia</i>

Zi Yu glucoside II
Zingiberene

Sanguisorba officinalis, *S. grandiflora*, *S. parviflora*, *S. x tenuifolia*
Alpinia oxyphylla, *A. speciosa*, *Curcuma aromatica*, *C. kwangsiensis*, *C. pallida*, *C. phaeocoulis*,
C. zedoaria, *Thymus amurensis*, *T. disjunctus*, *T. kitagawianus*, *T. komarovii*, *T. przewalskii*,
T. quinquecostatus, *Zingiber officinale*

Zingiberol
Zygadenine

Alpinia oxyphylla, *A. speciosa*, *Zingiber officinale*
Veratrum dahuricum, *V. maackii*, *V. nigrum*

APPENDIX 3

Major Chemical Components and Their Sources in Related North American Medicinal Herbs

Component	Source
1, 8-dihydroxy-anthracene derivatives	<i>Aloe barbadensis</i> , <i>A. vera</i>
2-(6'-cinnamoyl) glucosido-	<i>Silene ocaulis</i> , <i>S. virginica</i>
2- β -glucuronosyl	<i>Glycyrrhiza glabra</i>
2-3,4-dihydroxyphenyl-ethanol	<i>Jasaminum grandiflorum</i> , <i>J. officinale</i>
2-methoxy-1,4-naphthoquinone	<i>Impatiens balsamina</i>
2-vinyl-4H-1,3-dithin	<i>Allium sativum</i> , <i>A. fistulosum</i> , <i>A. tuberosum</i>
22-dihydrospinasterol	<i>Silene ocaulis</i> , <i>S. virginica</i>
2,5-dimethoxypara-quinone	<i>Phragmites australis</i>
3-O-glucoside	<i>Platycladus occidentalis</i>
3-n-pentadecylcatechol	<i>Rhus radicans</i> , <i>R. glabra</i> , <i>R. toxicodendron</i>
3-O- β -D-glucuronide	<i>Chamaenerion angustifolium</i> , <i>Epilobium angustifolium</i>
4'-O-methylpyridoxine	<i>Ginkgo biloba</i>
4-hydroxybenzaldehyde	<i>Phragmites australis</i>
4-hydroxycinnamic acid	<i>Phragmites australis</i>
Aabrin	<i>Abrus precatorius</i>
Ascorbic acid	<i>Rubus chamaemorus</i>
Abrin	<i>Abrus precatorius</i>
Abrotamine	<i>Artemisia annua</i>
Absinthol	<i>Artemisia absinthium</i>
Acalyphine	<i>Acalypha indica</i>
Acetopenone glucoside	<i>Veronica officinalis</i>
Acetyl harpagide	<i>Scrophularia ningpoensis</i>
Acetylated alkaloids	<i>Narcissus tazetta</i>
Acetylcholine	<i>Capsella bursa-pastoris</i> , <i>Thlaspi arvense</i> , <i>Viscum album</i>
Acetylenes	<i>Bidens tripartita</i> , <i>B. connata</i>
Acetylenic compounds	<i>Panax quinquefolium</i> , <i>P. ginseng</i>
Acetylinic	<i>Pimpinella anisum</i>
Achilleine	<i>Achillea millefolium</i>
Acidic polysaccharides	<i>Commiphora myrrha</i> , <i>C. molmol</i>

Aconitine	<i>Aconitum napellus</i> , <i>A. carmichaelii</i>
Acoric acid	<i>Acorus calamus</i> , <i>A. gramineus</i>
Acrylic acid	<i>Ananas comosus</i>
Actein	<i>Cimicifuga racemosa</i> , <i>C. foetida</i>
Actinidine	<i>Actinidia polygama</i>
Acutomidine	<i>Menispermum canadense</i>
Acutumine	<i>Menispermum canadense</i>
Adiantone	<i>Adiantum capillus-junonis</i>
Adonitoxin	<i>Adonis vernalis</i>
Aescin	<i>Aesculus hippocastanum</i>
Afzelechin	<i>Platycladus occidentalis</i>
Agaropectin	<i>Gelidium cartilagineum</i>
Agarose	<i>Gelidium cartilagineum</i>
Aglycone	<i>Hedera helix</i>
Agnuside	<i>Vitex labrusca</i> , <i>V. agnus-castus</i>
Ailanthone	<i>Ailanthus altissima</i> , <i>A. glandulosa</i>
Ajmaline	<i>Rauvolfia serpentina</i>
Ajoene	<i>Allium sativum</i> , <i>A. fistulosum</i> , <i>A. tuberosum</i>
Albiflorin	<i>Paeonia albiflora</i> , <i>P. lactiflora</i>
Albumin	<i>Papaver somniferum</i>
Albuminoides	<i>Dioscorea opposita</i>
Aldehyde antioxine	<i>Perilla frutescens</i>
Aldehydes	<i>Catharanthus roseus</i>
Alkaloid lamine	<i>Dipsacus asper</i>
Alkaloids	<i>Ailanthus altissima</i> , <i>A. glandulosa</i> , <i>Alstonia scholaris</i> , <i>Catharanthus roseus</i> , <i>Desmodium gangeticum</i> , <i>Ephedra distachya</i> , <i>Fritillaria verticillata</i> , <i>Justicia adhatoda</i> , <i>Lobelia siphilitica</i> , <i>Medicago sativa</i> , <i>Nicotiana tabacum</i> , <i>Pedicularis palustris</i> , <i>P. canadensis</i> , <i>Physalis alkekengi</i> , <i>P. franchetti</i> , <i>P. pubescens</i> , <i>Picrasma excelsa</i> , <i>Swertia chirata</i> , <i>Valeriana officinalis</i> , <i>Veratrum viride</i> , <i>Verbena officinalis</i> , <i>Viscum album</i>
Alkanes	<i>Aspidium filix-mis</i> , <i>Dryopteris filix-mas</i> , <i>D. filix-mas</i> , <i>Euphorbia hirta</i> , <i>Galium verum</i>

Component	Source
Alkenyl	<i>Codonopsis pilosula</i> , <i>C. tangshen</i>
Alkenyl glycoside	<i>Codonopsis pilosula</i> , <i>C. tangshen</i>
Allantoin	<i>Phaseolus vulgaris</i>
Alliin	<i>Allium sativum</i> , <i>A. fistulosum</i> , <i>A. tuberosum</i>
Allocryptopine	<i>Chelidonium majus</i>
Allomatatabiol	<i>Actinidia polygama</i>
Alnulin	<i>Alnus crispus</i> , <i>A. glutinosa</i>
Aloe-emodin	<i>Cassia angustifolia</i> , <i>C. senna</i>
Aloeresins	<i>Aloe barbadensis</i> , <i>A. vera</i>
Aloesin glycone	<i>Aloe barbadensis</i> , <i>A. vera</i>
Aloesone	<i>Aloe barbadensis</i> , <i>A. vera</i>
Alain isobarbaloin	<i>Aloe barbadensis</i> , <i>A. vera</i>
Alpha-acid	<i>Humulus lupulus</i>
Alpha-bisabolol	<i>Matricaria chamomilla</i>
Alpha-masticoresin	<i>Pistacia lentiscus</i>
Alpha-phytosterol	<i>Iris versicolor</i> , <i>Iris pseudacorus</i>
Alpha-pinene	<i>Alpinia galanga</i> , <i>Coriandrum sativum</i> , <i>Juniperus rigida</i> , <i>Perilla frutescens</i> , <i>Pinus sylvestris</i> , <i>P. albicaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i> , <i>Pistacia lentiscus</i>
Alpha-spinasterol	<i>Impatiens pallida</i> , <i>I. capensis</i>
Alpha-terpineol	<i>Melaleuca leucadendra</i>
Alpha-terthienylmethanol	<i>Eclipta alba</i> , <i>E. prostrata</i>
Alpha-thujone	<i>Biota orientalis</i>
Alpha-tocopherol	<i>Buxus sempervirens</i>
Alzarin	<i>Rubia tinctorum</i>
Amarogentin	<i>Swertia chirata</i>
Amine choline	<i>Capsella bursa-pastoris</i> , <i>Thlaspi arvense</i>
Amines	<i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i>
Amino acids	<i>Lycopersicon esculentum</i>
Aminobutyric acid	<i>Lycopersicon esculentum</i>

Amygdalin	<i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i> , <i>Cydonia oblonga</i> , <i>Prunus armeniaca</i> , <i>P. armericana</i>
Anagalline	<i>Anagalis arvensis</i>
Anagyrene	<i>Caulophyllum thalictroides</i>
Andole alkaloids	<i>Abrus precatorius</i>
Anemoni	<i>Ranunculus ficaria</i>
Anemonin	<i>Anemone pulsatilla</i> , <i>A. hepatica</i> , <i>A. patens</i> , <i>A. pulsatilla</i> , <i>Pulsatilla chinensis</i> , <i>Ranunculus occidentalis</i>
Anemonol	<i>Pulsatilla chinensis</i>
Anerhole	<i>Agastache anethrodora</i> , <i>A. foeniculum</i> , <i>Dictamnus albus</i> , <i>Foeniculum vulgare</i> , <i>Illicium verum</i> , <i>Pimpinella anisum</i>
Angelicide	<i>Angelica archangelica</i>
Anisaldehyde	<i>Agastache anethrodora</i> , <i>A. foeniculum</i>
Anthraquinone glycosides	<i>Aloe barbadensis</i> , <i>A. vera</i>
Anthemidin	<i>Matricaria chamomilla</i>
Anthocyanidin	<i>Paeonia officinalis</i>
Anthocyanin	<i>Abrus precatorius</i> , <i>Hibiscus sabdariffa</i> , <i>Malva sylvestris</i> , <i>M. rotundifolia</i> , <i>Morus alba</i> , <i>Perilla frutescens</i> , <i>Pinus albicaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i> , <i>Rubus idaeus</i> , <i>Vitis vinifera</i>
Anthocyanosides	<i>Ribes lacustre</i> , <i>R. nigrum</i> , <i>Vaccinium vitis-idaea</i> , <i>V. myrtilloides</i> , <i>V. myrtillus</i> , <i>V. oreophilum</i> , <i>V. macrocarpon</i>
Anthraquinone	<i>Cassia angustifolia</i> , <i>C. senna</i>
Anthraquinone derivatives	<i>Rubia tinctorum</i>
Anthraquinone glycosides	<i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i>
Anthraquinone compounds	<i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i>
Anthraquinones	<i>Galium verum</i> , <i>G. aparine</i> , <i>Lobelia pulmonaria</i> , <i>Polygonum hydropiper</i> , <i>P. bistorta</i> , <i>Rumex crispus</i> , <i>R. obtusifolia</i> , <i>R. acetosella</i> , <i>R. aquaticus</i> , <i>Terminalia chebula</i>
Antiprotease	<i>Ribes nigrum</i>
Apigenin	<i>Jatropha gossypifolia</i> , <i>Thymus vulgaris</i> , <i>T. capitatus</i> , <i>T. citriodorus</i> , <i>T. praecox</i> , <i>T. pulegiodes</i> , <i>T. serpyllum</i> , <i>T. vulgaris</i>
Apiin	<i>Apium graveolens</i> , <i>Cryptotaenia japonica</i>
Apiole	<i>Cryptotaenia japonica</i>
Aplotaxene	<i>Saussurea lappa</i>
Apocynein	<i>Apocynum androsaemifolium</i>

Component	Source
Apocynin	<i>Apocynum androsaemifolium</i>
Arachidic acid	<i>Thevetia peruviana</i>
Arbutin	<i>Pyrola rotundifolia</i> , <i>Vaccinium myrtilloides</i> , <i>V. myrtillus</i> , <i>V. oreophilum</i>
Arctic acid	<i>Arctium lappa</i>
Arctiin	<i>Areca catechu</i> , <i>Arctium lappa</i>
Arctiol	<i>Arctium lappa</i>
Arecaidine	<i>Areca catechu</i>
Arecaine	<i>Areca catechu</i>
Arecolidine	<i>Areca catechu</i>
Arecoline	<i>Areca catechu</i>
Aretylcholine	<i>Urtica urens</i>
Arginine	<i>Citrullus vulgaris</i> , <i>Lemna minor</i> , <i>Phaseolus vulgaris</i> , <i>Raphanus sativus</i>
Aristolochic acids	<i>Asarum canadense</i> , <i>Aristolochia clematitis</i> , <i>A. serpentaria</i>
Artemisinin	<i>Artemisia annua</i>
Artocapin	<i>Morus alba</i>
Asarinin	<i>Zanthoxylum americanum</i>
Asarone	<i>Acorus calamus</i> , <i>A. gramineus</i>
Ascaridole	<i>Chenopodium ambrosioides</i>
Ascorbic acid	<i>Artemisia vulgaris</i> , <i>Camellia sinensis</i> , <i>Prunus mume</i>
Ash	<i>Oxyria digyna</i>
Asiaticoside	<i>Centella asiatica</i>
Asparagine	<i>Abutilon indicum</i> , <i>Althaea officinalis</i> , <i>Asparagus officinalis</i> , <i>Astragalus membranaceus</i> , <i>A. americana</i> , <i>Euonymus atropurpureus</i> , <i>Phragmites australis</i>
Asparagosides	<i>Asparagus officinalis</i>
Asparamide	<i>Phragmites australis</i>
Asperuloside	<i>Galium verum</i> , <i>Rubia tinctorum</i>
Astragalin	<i>Matteuccia struthiopteris</i> , <i>Paeonia lactiflora</i>
Astragalosides	<i>Astragalus membranaceus</i>
Athocyanin	<i>Hibiscus rosa-sinensis</i>

Atractylenolide II	<i>Atractylodes macrocephala</i>
Atractylenolide III	<i>Atractylodes macrocephala</i>
Atractylol	<i>Atractylodes macrocephala</i>
Atropine alkaloids	<i>Solanum tuberosum</i>
Aucubin	<i>Plantago major</i> , <i>Prunella vulgaris</i> , <i>Scrophularia ningpoensis</i> , <i>Vitex labrusca</i> , <i>V. agnus-castus</i>
Aucuboside	<i>Veronica officinalis</i>
Azulene	<i>Matricaria chamomilla</i>
Baicalein	<i>Scutellaria baicalensis</i> , <i>S. macrantha</i> , <i>S. lateriflora</i>
Baicalin	<i>Scutellaria baicalensis</i> , <i>S. macrantha</i> , <i>S. lateriflora</i>
Baldrianic acid	<i>Sambucus racemosa</i>
Balsaminasterol	<i>Impatiens balsamina</i>
Balsaminones	<i>Impatiens balsamina</i>
Barbaloin	<i>Aloe barbadensis</i> , <i>A. vera</i>
Bavachin	<i>Psoralea corylifolia</i>
Belamcandaquinones A	<i>Belamcanda chinensis</i>
Belamcandaquinones B	<i>Belamcanda chinensis</i>
Benzaldehyde	<i>Styrax benzoin</i>
Benzoic acid	<i>Arisaema consanguineum</i> , <i>Citrus aurantium</i> , <i>Paeonia lactiflora</i> , <i>P. lactiflora</i> , <i>P. albiflora</i> , <i>P. suffruticosa</i> , <i>Rubus chamaemorus</i> , <i>Scutellaria baicalensis</i> , <i>S. macrantha</i> , <i>S. lateriflora</i> , <i>Styrax benzoin</i> , <i>S. benzoin</i>
Benzol-aconitine	<i>Aconitum carmichaelii</i> , <i>A. napellus</i>
Benzophenone	<i>Centaurium erythraea</i>
Benzoquinene	<i>Lysimachia vulgaris</i>
Benzoylecgonine	<i>Erythroxylum coca</i>
Benzyl benzoate	<i>Dianthus caryophyllus</i>
Berberamine	<i>Berberis vulgaris</i>
Berberine	<i>Berberis vulgaris</i> , <i>B. aquifolium</i> , <i>Chelidonium majus</i> , <i>Coptis chinensis</i> , <i>C. groenlandica</i> , <i>C. trifolia</i> , <i>Mahonia aquifolium</i> , <i>Phellodendron amurense</i> , <i>P. chinensis</i>
Berberubine	<i>Berberis vulgaris</i>
Bergapten	<i>Apium graveolens</i>
Bergegin	<i>Cuscuta chinensis</i> , <i>C. epithymum</i>

Component	Source
Beta-acid	<i>Humulus lupulus</i>
Beta-amyrin	<i>Anemone pulsatilla</i>
Beta-carotene	<i>Camellia sinensis</i> , <i>Crocus sativus</i> , <i>Prunus mume</i>
Beta-D-glucoside	<i>Melochia tomentosa</i>
Beta-D-glucopyranosil	<i>Campanula rotundifolia</i> , <i>C. palustris</i>
Beta-elemone	<i>Hedera helix</i>
Beta-ergosterol	<i>Impatiens pallida</i> , <i>I. capensis</i>
Beta-masticoresin	<i>Pistacia lentiscus</i>
Beta-methyl-adipic acid	<i>Menispermum palmatum</i>
Beta-pachyman	<i>Poria cocos</i>
Beta-pachymanase	<i>Poria cocos</i>
Beta-pinene	<i>Juniperus rigida</i> , <i>Melaleuca leucadendra</i> , <i>Pinus sylvestris</i> , <i>P. albicaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i>
Beta-sitosterol	<i>Alnus crispus</i> , <i>A. glutinosa</i> , <i>Anemone pulsatilla</i> , <i>Cassia angustifolia</i> , <i>C. senna</i> , <i>Corylus avellana</i> , <i>C. cornuta</i> , <i>C. rostrata</i> , <i>C. americana</i> , <i>Lycium barbarum</i> , <i>L. chinense</i> , <i>L. pallidum</i> , <i>Matteuccia struthiopteris</i> , <i>Melochia tomentosa</i> , <i>Paeonia lactiflora</i> , <i>Rehmannia glutinosa</i> , <i>Scutellaria baicalensis</i> , <i>S. macrantha</i> , <i>S. lateriflora</i> , <i>Smilax aristolochiifolia</i> , <i>S. china</i> , <i>Ulmus rubra</i> , <i>U. procera</i> , <i>Urtica urens</i>
Beta-thujone	<i>Biota orientalis</i>
Betaine	<i>Lycium barbarum</i> , <i>L. chinense</i> , <i>L. pallidum</i> , <i>Stachys officinalis</i>
Betonicine	<i>Stachys officinalis</i>
Betulinic acid	<i>Prunella vulgaris</i>
Beyerene	<i>Biota orientalis</i>
Bilobalide	<i>Ginkgo biloba</i>
Bilobetin	<i>Ginkgo biloba</i>
Bioflavonoids	<i>Citrus aurantium</i> , <i>Fagopyrum esculentum</i> , <i>F. turticum</i> , <i>F. esculentum</i>
Biotin	<i>Lycoperiscon esculentum</i>
bis-norargemonine	<i>Thalictrum dasycarpum</i> , <i>T. occidentale</i>
Bishomophinolenic acid	<i>Pinus albicaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i>
Bonducin	<i>Caesalpinia ascendens</i> , <i>C. bonducella</i> , <i>C. sylvatica</i>

Borneol	<i>Asarum canadense</i> , <i>Biota orientalis</i> , <i>Chrysanthemum vulgare</i> , <i>Elettaria cardamomum</i> , <i>Juniperus communis</i> , <i>J. sabina</i> , <i>J. horizontalis</i> , <i>Kaempferia galanga</i> , <i>Salvia officinalis</i>
Borneol acetate	<i>Biota orientalis</i> , <i>Pinus albicaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i>
Bornyl esters	<i>Valeriana officinalis</i>
Bornyl isovalerate	<i>Cnidium monnieri</i>
Brefeldin A	<i>Angelica archangelica</i>
Bromelain	<i>Ananas comosus</i>
Bulnesene	<i>Pogostemon cablin</i>
Bupleurumol	<i>Bupleurum falcatum</i>
Bursine	<i>Capsella bursa-pastoris</i> , <i>Thlaspi arvense</i>
Butylphthalide	<i>Angelica polymorpha</i>
Cadinene	<i>Angelica polymorpha</i>
Caffeic acid	<i>Aconitum napellus</i> , <i>A. carmichaelii</i> , <i>Campanula rotundifolia</i> , <i>C. palustris</i> , <i>Digitalia purpurea</i> , <i>Eucalyptus citriodora</i> , <i>E. globulus</i> , <i>Glycine max</i> , <i>Hieracium pilosella</i> , <i>Matteuccia struthiopteris</i> , <i>Prunella vulgaris</i> , <i>Tilia cordata</i> , <i>T. europaea</i> , <i>Trifolium pratense</i> , <i>Viscum album</i>
Caffeic derivatives	<i>Lycopus virginicus</i>
Caffeine	<i>Camellia sinensis</i> , <i>I. aquifolium</i> , <i>I. paraguensis</i>
Calcium	<i>Chaenomeles speciosa</i> , <i>Portulaca oleracea</i> , <i>Rubia tinctorum</i>
Calcium oxalate	<i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i>
Calcyosin	<i>Astragalus membranaceus</i> , <i>A. americana</i>
Calystegins	<i>Calystegia sepium</i>
Campesterol	<i>Matteuccia struthiopteris</i> , <i>Ulmus rubra</i> , <i>U. procera</i>
Camphene	<i>Cinnamomum cassia</i> , <i>Cnidium monnieri</i> , <i>Kaempferia galanga</i> , <i>Mentha arvensis</i> , <i>M. haplocalyx</i>
Camphesterol	<i>Scutellaria baicalensis</i> , <i>S. macrantha</i> , <i>S. lateriflora</i>
Camphor	<i>Achillea millefolium</i> , <i>Biota orientalis</i> , <i>Blumea balsumifera</i> , <i>Chrysanthemum parthenium</i> , <i>C. vulgare</i> , <i>Cinnamomum camphora</i> , <i>C. cassia</i> , <i>Dryobalanops aromatica</i> , <i>Elettaria cardamomum</i> , <i>Salvia officinalis</i>
Caoutchouc	<i>Apocynum androsaemifolium</i> , <i>Thevetia peruviana</i>
Capronic acid	<i>Aquilegia vulgaris</i>
Carbohydrate	<i>Oxyria digyna</i> , <i>Phragmites communis</i> , <i>Glycine max</i> , <i>Solanum aculeatissimum</i> , <i>S. melongena</i>
Carboxylic acid	<i>Lobelia inflata</i>

Component	Source
Cardenolides	<i>Convallaria majalis</i> , <i>C. sepium</i>
Cardiac glycosides	<i>Adonis vernalis</i> , <i>Convallaria majalis</i> , <i>C. sepium</i> , <i>Euonymus atropurpureus</i> , <i>Strophanthus gratus</i> , <i>S. kombe</i>
Cardienolides	<i>Euonymus atropurpureus</i>
Carene	<i>Kaempferia galanga</i>
Cariaester	<i>Solidago canadensis</i> , <i>S. virgaurea</i>
Carotene	<i>Avena sativa</i> , <i>Daucus carota</i> , <i>Lycium barbarum</i> , <i>L. pallidum</i> , <i>Lycopersicon esculentum</i> , <i>Plantago major</i>
Carotenoids	<i>Hippophae rhamnoides</i> , <i>Calendula officinalis</i> , <i>Citrus aurantium</i> , <i>Ginkgo biloba</i> , <i>Viscum album</i>
Carthamone	<i>Carthamus tinctorius</i>
Carvacrol	<i>Angelica polymorpha</i> , <i>Thymus vulgaris</i> , <i>T. capitatus</i> , <i>T. citriodorus</i> , <i>T. praecox</i> , <i>T. pulegiodes</i> , <i>T. serpyllum</i>
Carvone	<i>Anethum graveoleus</i> , <i>Carum carvi</i> , <i>Elettaria cardamomum</i> , <i>Mentha spicata</i> , <i>M. x piperita</i> , <i>Peucedanum graveolens</i>
Caryophyllen	<i>Phytolacca americana</i>
Caryophyllene	<i>Elettaria cardamomum</i> , <i>Piper nigrum</i> , <i>P. longum</i>
Casticin	<i>Vitex labrusca</i> , <i>V. agnus-castus</i>
Catalpine	<i>Bignonia catalpa</i>
Catalpol	<i>Scutellaria lateriflora</i> , <i>S. baicalensis</i> , <i>S. macrantha</i>
Catechins	<i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i> , <i>Leonurus cardiaca</i> , <i>Platycladus occidentalis</i> , <i>Potentilla erecoa</i> , <i>P. tormentilla</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>Uncaria gambir</i>
Caulophylline	<i>Caulophyllum thalictroides</i>
Caulosaponin	<i>Caulophyllum thalictroides</i>
Chaconine	<i>Solanum nigrum</i>
Chalcones flavonoids	<i>Glycyrrhiza uralensis</i>
Chamazulene	<i>Achillea millefolium</i>
Charantin	<i>Momordica charantia</i>
Chebulic acid	<i>Terminalia chebula</i>
Chelerythrine	<i>Zanthoxylum americanum</i>
Chelidonic acid	<i>Veratrum viride</i>
Chelidonine	<i>Chelidonium majus</i>
Chimpahilin	<i>Pyrola rotundifolia</i>

Chlorogenic acid	<i>Digitalia purpurea</i> , <i>Hypericum perforatum</i> , <i>Matteuccia struthiopteris</i> , <i>Plantago major</i> , <i>Strychnos nux-vomica</i>
Chlorogenic derivatives	<i>Lycopus virginicus</i>
Cholesterol	<i>Ulmus rubra</i> , <i>U. procera</i>
Choline	<i>Cannabis sativa</i> , <i>Digitalia purpurea</i> , <i>Euphorbia hirta</i> , <i>Glycine max</i> , <i>Leonurus cardiaca</i> , <i>Potentilla anserina</i> , <i>Stachys officinalis</i> , <i>Taraxacum officinale</i> , <i>Trigonella foenum-graecum</i> , <i>Urtica urens</i> , <i>Viscum album</i>
Chrysophanic acid	<i>Aloe barbadensis</i> , <i>A. vera</i> , <i>Polygonum hydropiper</i> , <i>P. bistorta</i>
Chrysophanol	<i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i> , <i>Rumex acetosella</i> , <i>R. aquaticus</i> , <i>R. crispus</i>
Cimicifugin	<i>Cimicifuga racemosa</i>
Cimicifugoside	<i>Cimicifuga foetida</i>
Cineole	<i>Achillea millefolium</i> , <i>Alpinia galanga</i> , <i>Artemisia vulgarts</i> , <i>Crocus sativus</i> , <i>Eucalyptus citriodora</i> , <i>E. globulus</i> , <i>Juniperus rigida</i> , <i>Melaleuca leucadendra</i> , <i>Mentha spicata</i> , <i>M. x piperita</i> , <i>Salvia officinalis</i> , <i>Vitex labrusca</i> , <i>V. agnus-castus</i>
Cinerins	<i>Chrysanthemum cinerriaefolium</i> , <i>Pyrethrum cinerariifolium</i>
Cinnamaldehyde	<i>Cinnamomum zeglanicum</i> , <i>C. cassia</i>
Cinnamic acid	<i>Citrus aurantium</i> , <i>Liquidambar orientalis</i> , <i>L. styraciflua</i> , <i>Lycium barbarum</i> , <i>L. pallidum</i> , <i>Populus alba</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>Styrax benzoin</i>
Cinnamon	<i>Blumea balsumifera</i>
Cinnamyl cinnamate	<i>Liquidambar orientalis</i> , <i>L. styraciflua</i>
Cinnamylcoaine	<i>Erythroxylum coca</i>
Cissampeline	<i>Cissampelos pareira</i>
Citral	<i>Cymbopogon citratus</i> , <i>C. nardus</i> , <i>C. martinii</i> , <i>C. winterianus</i> , <i>Perilla frutescens</i>
Citric acid	<i>Aesculus hippocastanum</i> , <i>Ananas comosus</i> , <i>Fragaria vesca</i> , <i>Hibiscus rosa-sinensis</i> , <i>H. sabdariffa</i> , <i>Lonicera caerulea</i> , <i>L. caprifolium</i> , <i>Paris quadrifolia</i> , <i>Prunus mume</i> , <i>Ribes nigrum</i> , <i>Rosa rugosa</i> , <i>R. acicularis</i> , <i>R. canina</i> , <i>R. damascena</i> , <i>R. gallica</i>
Citronellal	<i>Cymbopogon citratus</i> , <i>C. nardus</i> , <i>C. martinii</i> , <i>C. winterianus</i>
Citronellol	<i>Rosa canina</i> , <i>R. damascena</i> , <i>R. gallica</i>
Citrullin	<i>Citrullus vulgaris</i>
Clerodendrin acacetin	<i>Clerodendrum trichotomum</i>
Cnicin	<i>Carduus benedita</i> , <i>Geum urbanum</i>

Component	Source
Cocain	<i>Erythroxylum coca</i>
Codeine	<i>Papaver somniferum</i> , <i>P. rhoeas</i> , <i>P. bracteatum</i>
Columbamine	<i>Berberis aquifolium</i> , <i>Mahonia aquifolium</i>
Colxol	<i>Phragmites australis</i>
Condurangogenins	<i>Marsdenia condurango</i>
Coniferaldehyde	<i>Phragmites australis</i>
Convallatoxol	<i>Convallaria majalis</i> , <i>C. sepium</i>
Convallaside	<i>Convallaria majalis</i> , <i>C. sepium</i>
Convallotoxin	<i>Convallaria majalis</i> , <i>C. sepium</i>
Convolvulin	<i>Convolvulus jayapa</i> , <i>Ipomoea purga</i>
Coptisine	<i>Coptis chinensis</i> , <i>C. groenlandica</i> , <i>C. trifolia</i>
Cornerin	<i>Nerium oleander</i>
Cornic acid	<i>Cornus canadensis</i>
Cornine	<i>Cornus canadensis</i>
Cortenerin	<i>Nerium oleander</i>
Corydaline	<i>Corydalis yanhusuo</i> , <i>C. solida</i>
Corydalis	<i>Corydalis yanhusuo</i> , <i>C. solida</i>
Corynoxeine	<i>Uncaria gambir</i>
Corypalline	<i>Thalictrum dasycarpum</i> , <i>Thalictrum occidentale</i>
Coumaric acid	<i>Eucalyptus citriodora</i> , <i>E. globulus</i> , <i>Populus alba</i>
Coumarin derivatives	<i>Aesculus hippocastanum</i> , <i>Tagetes minuta</i> , <i>T. lucida</i>
Coumarins	<i>Angelica archangelica</i> , <i>Agrimonia eupatoria</i> , <i>Anethum graveoleus</i> , <i>Anthriscus cerefolium</i> , <i>Apium graveolens</i> , <i>Artemisia dracunculus</i> , <i>Aster tataricus</i> , <i>Cinnamomum zeglanicum</i> , <i>Citrus aurantium</i> , <i>C. aurantium</i> , <i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i> , <i>Cryptotaenia japonica</i> , <i>Datura innoxia</i> , <i>D. metel</i> , <i>D. stramonium</i> , <i>Eleutherococcus senticosus</i> , <i>Ferula assa-foetida</i> , <i>Fraxinus ornus</i> , <i>F. americana</i> , <i>F. excelsior</i> , <i>Gelsemium sempervirens</i> , <i>Hieracium pilosella</i> , <i>Hierochloa odorata</i> , <i>Lactuca serriola</i> , <i>Lawsonia inermis</i> , <i>Ledum palustre</i> , <i>Matricaria chamomilla</i> , <i>Medicago sativa</i> , <i>Melilotus alba</i> , <i>M. arvensis</i> , <i>M. officinalis</i> , <i>Menyanthes trifoliata</i> , <i>Peucedanum graveolens</i> , <i>Picrasma excelsa</i> , <i>Pimpinella anisum</i> , <i>Stellaria media</i> , <i>Trigonella foenum-graecum</i> , <i>Viburnum opulus</i> , <i>V. prunifolium</i>

Coumestrol	<i>Glycine max</i>
Crataegus acid	<i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i>
Creosol	<i>Pimpinella anisum</i>
Cresols	<i>Menispermum palmatum</i>
Crocine glycosides	<i>Crocus sativus</i>
Croton oil	<i>Croton tiglium</i>
Crude fiber	<i>Phragmites communis</i>
Cubebin	<i>Piper cubeba</i>
Cucurbitacins	<i>Anagalis arvensis</i> , <i>Cucurbita maxima</i>
Curcumin	<i>Curcuma longa</i> , <i>Santalum album</i>
Curcuminoids	<i>Curcuma aromatica</i>
Cutins	<i>Quercus robur</i>
Cyanide	<i>Prunus mume</i>
Cyanidin	<i>Jatropha gossypifolia</i>
Cyanogenic glycosides	<i>Acalypha indica</i> , <i>Cydonia oblonga</i> , <i>Hydrangea arborescens</i> , <i>Manihot esculenta</i> , <i>Prunus domestica</i> , <i>P. armeniaca</i> , <i>P. americana</i> , <i>Sambucus nigra</i> , <i>S. canadensis</i> <i>S. racemosa</i>
Cymarín	<i>Apocynum androsaemifolium</i>
Cymene	<i>Juniperus communis</i> , <i>J. sabina</i> , <i>J. horizontalis</i> , <i>Mentha spicata</i> , <i>M. x piperita</i>
Cynaroside	<i>Matricaria chamomilla</i>
Cypripedin	<i>Cypripedium calceolus</i> , <i>C. pariflorum</i>
d-borneol	<i>Dryobalanops aromatica</i>
d-camphene	<i>Myristica fragrans</i>
d-pseudoephedrine	<i>Ephedra distachya</i> , <i>E. sinica</i> , <i>E. nevadensis</i>
d-USnic acid	<i>Lobelia pulmonaria</i>
Daidzein	<i>Glycine max</i> , <i>Pueraria thunbergiana</i>
Daidzin	<i>Pueraria lobata</i>
Dammaranediol	<i>Inula helenium</i>
Daphnetoxin	<i>Daphne genkwa</i> , <i>D. mezereum</i>
Dasycarponin	<i>Thalictrum dasycarpum</i> , <i>T. occidentale</i>

Component	Source
Dauricine	<i>Menispermum canadense</i>
Daurinoline	<i>Menispermum canadense</i>
Deanolic acid	<i>Prunella vulgaris</i>
Deguelin	<i>Tephrosia virginiana</i>
Dehydrofukinone	<i>Arctium lappa</i> , <i>Tephrosia virginiana</i>
Dehydrosoyasaponin	<i>Wisteria floribunda</i> , <i>W. brachybotrys</i>
Delphinidin	<i>Anemone pulsatilla</i>
Delphinidin-3,5-diglucoside	<i>Aquilegia vulgaris</i>
Delta-limonene	<i>Pinus sylvestris</i>
Delta-linalool	<i>Asarum canadense</i>
Dendrolasin	<i>Santalum album</i>
Diadzein	<i>Pueraria lobata</i>
Diallyl disulfide	<i>Allium sativum</i> , <i>A. fistulosum</i> , <i>A. tuberosum</i>
Diallyl trisulfide	<i>Allium sativum</i> , <i>A. fistulosum</i> , <i>A. tuberosum</i>
Dianthrone glucosides	<i>Cassia angustifolia</i> , <i>C. senna</i>
Diastase	<i>Rorippa nasturtium-aquaticum</i>
Dicoumarol	<i>Melilotus alba</i> , <i>M. arvensis</i>
Dictamnin	<i>Dictamnus albus</i>
Digitoxin	<i>Digitalia purpurea</i>
Digoxin	<i>Digitalia purpurea</i>
Dihydro- β -agarofuran	<i>Santalum album</i>
Dihydrolycopodine	<i>Lycopodium clavatum</i> , <i>L. obscurum</i>
Dihydronepetalactol	<i>Actinidia polygama</i>
Dilactone	<i>Poterium officinale</i> , <i>Sanguisorba officinalis</i>
Dimeric indole alkaloids	<i>Catharanthus roseus</i>
Diosgenin	<i>Aletris farinosa</i> , <i>Dioscorea opposita</i> , <i>Solanum nigrum</i>
Dipentene	<i>Cinnamomum cassia</i>
Disulphides	<i>Ferula assa-foetida</i>

Diterpene acids	<i>Aralia catechu</i> , <i>A. nudicaulis</i> , <i>A. racemosa</i>
Diterpene jatrophone	<i>Jatropha gossypifolia</i>
Diterpenes	<i>Aster tataricus</i> , <i>Eupatorium perfoliatum</i> , <i>Juniperus rigida</i>
Dodium	<i>Chaenomeles speciosa</i>
Ecdysterones	<i>Silene ocaulis</i> , <i>S. virginica</i>
Ecgonine	<i>Erythroxylum coca</i>
Ecliptine	<i>Eclipta alba</i> , <i>E. prostrata</i>
Eleutherosides	<i>Eleutherococcus senticosus</i>
Elixen	<i>Hedera helix</i>
Ellagic acids	<i>Lycopus virginicus</i>
Ellagitannins	<i>Potentilla erecoa</i> , <i>P. anserina</i> , <i>P. tormentilla</i> , <i>Punica granatum</i>
Emetic	<i>Jatropha gossypifolia</i>
Emodin	<i>Aloe barbadensis</i> , <i>A. vera</i> , <i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>Rhumex acetosella</i> , <i>R. aquaticus</i> , <i>R. crispus</i>
Emulsin	<i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i>
Enzymes	<i>Drosera rotundifolia</i> , <i>Ficus carica</i>
Ephedrine	<i>Ephedra distachya</i> , <i>E. sinica</i>
Epiafzalechin	<i>Platycladus occidentalis</i>
Epicatechin	<i>Platycladus occidentalis</i>
Epigallocatechin	<i>Platycladus occidentalis</i>
Equisitine	<i>Equisetum arvense</i>
Esculetin	<i>Campanula rotundifolia</i> , <i>C. palustris</i>
Essential oils	<i>Betula lenta</i> , <i>B. pendula</i> , <i>B. verrucosa</i> , <i>Corylus avellana</i> , <i>C. cornuta</i> , <i>C. rostrata</i> , <i>C. americana</i> , <i>Curcuma</i> <i>aromatica</i> , <i>Dipsacus asper</i> , <i>Heracleum maximum</i> , <i>H. lanatum</i> , <i>H. sphondylium</i> , <i>Hippophae rhamnoides</i> , <i>Jasaminum grandiflorum</i> , <i>J. officinale</i> , <i>Ligusticum scoticum</i> , <i>Ligustrum lucidum</i> , <i>L. vulgare</i> , <i>Prunus</i> <i>persica</i> , <i>Rorippa nasturtium-aquaticum</i> , <i>Tagetes patula</i> , <i>Valeriana officinalis</i> , <i>Veronica officinalis</i> , <i>Zea</i> <i>mays</i>
Estragol	<i>Dictamnus albus</i>
Estragole	<i>Artemisia dracunculus</i>
Ethyl cinnamate	<i>Kaempferia galanga</i>

Component	Source
Ethyl-p-methoxycinnamate	<i>Kaempferia galanga</i>
Eucalptole	<i>Elettaria cardamomum</i>
Eucalyptol	<i>Eucalyptus citriodora</i> , <i>E. globulus</i>
Eugenal	<i>Menispermum palmatum</i>
Eugenol	<i>Cinnamomum zeglanicum</i> , <i>C. camphora</i> , <i>Dianthus caryophyllus</i> , <i>Eugenia caryophyllata</i> , <i>Geum aleppicum</i> , <i>G. urbanum</i> , <i>Syzygium aromaticum</i> , <i>S. aromaticum</i>
Eupafolin polysaccharides	<i>Eupatorium perfoliatum</i>
Euphorbone	<i>Euphorbia lathyrus</i>
Falvonoids	<i>Chimaphila umbellata</i> , <i>Eriobotrya japonica</i>
Fat	<i>Oxyria digyna</i>
Fatty acids	<i>Glycine max</i> , <i>Hippophae rhamnoides</i> , <i>Lobelia chinensis</i> , <i>Zea mays</i>
Fatty oil	<i>Pimpinella anisum</i>
Fenchone	<i>Biota orientalis</i> , <i>Foeniculum vulgare</i>
Ferment	<i>Rorippa nasturtium-aquaticum</i>
Ferric oxide	<i>Corylus avellana</i> , <i>C. cornuta</i> , <i>C. rostrata</i> , <i>C. americana</i>
Ferulic acid	<i>Angelica archangelica</i> , <i>Campanula rotundifolia</i> , <i>C. palustris</i> , <i>Matteaccia struthiopteris</i> , <i>Phragmites australis</i>
Flavonols	<i>Ailanthus altissima</i>
Fiber	<i>Glycine max</i> , <i>Plantago asiatica</i>
Filicin	<i>Dryopteris filix-mas</i>
Fix oils	<i>Apocynum androsaemifolium</i> , <i>Caesalpinia ascendens</i> , <i>C. bonducella</i> , <i>C. sylvatica</i> , <i>Cydonia oblonga</i> , <i>Cyperus esculentus</i> , <i>C. brevifolius</i> , <i>Euphorbia lathyrus</i> , <i>Momordica charantia</i> , <i>Trillium erectum</i>
Flavanol glycosides	<i>Rhodiola rosea</i> , <i>Sedum acre</i>
Flavanones	<i>Populus alba</i>
Flavone glycoside	<i>Alnus crispus</i> , <i>A. glutinosa</i> , <i>Perilla frutescens</i>
Flavones	<i>Chamaenerion angustifolium</i> , <i>Cytisus scoparius</i> , <i>Ephedra sinica</i> , <i>Platycladus occidentalis</i> , <i>Populus alba</i> , <i>Swertia chirata</i>
Flavonlignans	<i>Carduus marianus</i>

Flavonoids	<i>Acacia catechu</i> , <i>A. hippocastanum</i> , <i>Agrimonia eupatoria</i> , <i>Althaea officinalis</i> , <i>Anethum graveoleus</i> , <i>Anthriscus cerefolium</i> , <i>Artemisia dracunculus</i> , <i>A. absinthium</i> , <i>Asparagus officinalis</i> , <i>Aster tataricus</i> , <i>Bidens tripartita</i> , <i>B. connata</i> , <i>Biota orientalis</i> , <i>Blumea balsumifera</i> , <i>Bupleurum falcatum</i> , <i>Calendula officinalis</i> , <i>Capsella bursa-pastoris</i> , <i>Carum carvi</i> , <i>Conyza canadensis</i> , <i>Cuscuta chinensis</i> , <i>C. epithymum</i> , <i>Datura innoxia</i> , <i>D. metel</i> , <i>D. stramonium</i> , <i>Drosera rotundifolia</i> , <i>Epilobium parviflorum</i> , <i>Equisetum hyemale</i> , <i>Erigeron canadensis</i> , <i>Eupatorium perfoliatum</i> , <i>Euphorbia hirta</i> , <i>Ficus carica</i> , <i>Fraxinus ornus</i> , <i>F. americana</i> , <i>F. excelsior</i> , <i>F. ornus</i> , <i>Galium verum</i> , <i>Ginkgo biloba</i> , <i>Glechoma hederacea</i> , <i>Glycyrrhiza glabra</i> , <i>Gossypium herbaceum</i> , <i>Hieracium pilosella</i> , <i>Hydrangea arborescens</i> , <i>Hypericum perforatum</i> , <i>Hippophae rhamnoides</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>Lactuca serriola</i> , <i>Lawsonia inermis</i> , <i>Ledum palustre</i> , <i>Loranthus europaeus</i> , <i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. annotinum</i> , <i>Lysimachia vulgaris</i> , <i>Matricaria chamomilla</i> , <i>Melia azedarach</i> , <i>Melilotus alba</i> , <i>M. officinalis</i> , <i>M. arvensis</i> , <i>Morus alba</i> , <i>Myrica cerifera</i> , <i>M. pennsylvanica</i> , <i>Oenothera biennis</i> , <i>Parietaria judaica</i> , <i>Peucedanum graveolens</i> , <i>Physalis alkekengi</i> , <i>P. franchetti</i> , <i>P. pubescens</i> , <i>Pimpinella anisum</i> , <i>Polygonatum odoratum</i> , <i>P. multiflorum</i> , <i>P. biflorum</i> , <i>Polygonum aviculare</i> , <i>P. viviparum</i> , <i>P. multiflorum</i> , <i>Populus alba</i> , <i>P. balsamifera</i> , <i>P. candicans</i> , <i>Potentilla anserina</i> , <i>Primula vulgaris</i> , <i>P. veris</i> , <i>Rubus idaeus</i> , <i>Salix alba</i> , <i>S. discolor</i> , <i>Sambucus nigra</i> , <i>S. canadensis</i> , <i>Scrophularia ningpoensis</i> , <i>Stellaria media</i> , <i>Thlaspi arvense</i> , <i>Thuja occidentalis</i> , <i>Tilia cordata</i> , <i>T. europaea</i> , <i>Trifolium incarnatum</i> , <i>Veronica officinalis</i> , <i>Viscum album</i> , <i>Vitis labrusca</i> , <i>V. agnus-castus</i> , <i>Vitis vinifera</i> , <i>Ziziphus jujuba</i>
Flavonoid glycosides	<i>Convallaria majalis</i> , <i>C. sepium</i> , <i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i> , <i>Malva sylvestris</i> , <i>M. rotundifolia</i> , <i>Menyanthes trifoliata</i> , <i>Pyrola rotundifolia</i> , <i>Spiraea ulmaria</i> , <i>Silybum marianum</i>
Flavonols	<i>Ailanthus glandulosa</i> , <i>Populus alba</i>
Foetidin	<i>Ferula assa-foetida</i>
Folic acid	<i>Lycopersicon esculentum</i> , <i>Sesamum indicum</i>
Folinerin	<i>Nerium oleander</i>
Formononetin	<i>Astragalus membranaceus</i> , <i>A. americana</i>
Forsythin	<i>Forsythia suspensa</i>
Frangulin A	<i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i>
Frangulin B	<i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i>
Fumaric acid	<i>Salvia officinalis</i>
Furanoid	<i>Artemisia tridentata</i>

Component	Source
Galactan	<i>Luffa aegyptiaca</i> , <i>L. cylindrica</i>
Galactose	<i>Pinus albicaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i>
Galactoside-specific lectin	<i>Viscum album</i>
Galangin	<i>Alpinia galanga</i>
Galangol	<i>Alpinia galanga</i>
Gallic acid	<i>Betula lenta</i> , <i>B. pendula</i> , <i>B. verrucosa</i> , <i>Cornus florida</i> , <i>Cypripedium calceolus</i> , <i>C. pariflorum</i> , <i>Eucalyptus citriodora</i> , <i>E. globulus</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>Rubus idaeus</i> , <i>Tagetes minuta</i> , <i>T. lucida</i> , <i>Tussilago farfara</i>
Gallic acid derivatives	<i>Epilobium parviflorum</i>
Gallocatechin	<i>Platycladus occidentalis</i>
Gallotannin	<i>Paeonia lactiflora</i>
Gardenin crocin	<i>Gardenia angusta</i>
Gaultherin	<i>Polygala vulgaris</i>
Gelsedine	<i>Gelsemium sempervirens</i>
Gelsemine	<i>Gelsemium sempervirens</i>
Geniposide	<i>Gardenia angusta</i>
Gentianindine	<i>Gentiana lutea</i> , <i>G. macrophylla</i> , <i>G. scabra</i>
Gentianine	<i>Gentiana lutea</i> , <i>G. macrophylla</i> , <i>G. scabra</i>
Gentiopicroside	<i>Centaurium erythraea</i>
Gentisic acid	<i>Eucalyptus citriodora</i> , <i>E. globulus</i>
Geraniol	<i>Chenopodium ambrosioides</i> , <i>Rosa acicularis</i> , <i>R. rugosa</i> , <i>R. canina</i> , <i>R. damascena</i> , <i>R. gallica</i>
Germacrene B	<i>Hedera helix</i>
Gingerol	<i>Zingiber officinale</i>
Ginkgetin	<i>Ginkgo biloba</i>
Ginkgocide A	<i>Ginkgo biloba</i>
Ginkgocide B	<i>Ginkgo biloba</i>
Ginkgocide C	<i>Ginkgo biloba</i>
Ginkgocide J	<i>Ginkgo biloba</i>
Ginkgocide M	<i>Ginkgo biloba</i>

Ginsenosides	<i>Panax quinquefolium</i> , <i>P. ginseng</i>
Givacolone	<i>Areca catechu</i>
Glabridin	<i>Glycyrrhiza glabra</i>
Glechomine	<i>Glechoma hederacea</i>
Globulin	<i>Lycopersicon esculentum</i>
Globuline	<i>Glycine max</i>
Glucans	<i>Sambucus racemosa</i>
Glucofrangulin A	<i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i>
Glucofrangulin B	<i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i>
Gluconasturin	<i>Rorippa nasturtium-aquaticum</i>
Glucoquinone	<i>Urtica urens</i>
Glucose	<i>Ficus carica</i> , <i>Tagetes minuta</i> , <i>T. lucida</i>
Glucoside apocynamarin	<i>Apocynum androsaemifolium</i>
Glucosinolates	<i>Raphanus sativus</i>
Glucuronic acid	<i>Glycyrrhiza glabra</i>
Glutamic acid	<i>Lycopersicon esculentum</i>
Glutamine	<i>Heracleum maximum</i> , <i>H. lanatum</i> , <i>H. sphondylium</i>
Gluten	<i>Taraxacum officinale</i>
Glycans	<i>Eleutherococcus senticosus</i>
Glycine	<i>Glycine max</i> , <i>Lycopersicon esculentum</i>
Glycorrhzin	<i>Glycyrrhiza glabra</i>
Glycosides	<i>Aralia catechu</i> , <i>A. nudicaulis</i> , <i>A. racemosa</i> , <i>Paeonia officinalis</i> , <i>Phragmites australis</i> , <i>Salix alba</i> , <i>S. discolor</i>
Glycyrrhetic acid	<i>Glycyrrhiza glabra</i>
Glycyrrhizin	<i>Abrus precatorius</i>
Gossypetin	<i>Hibiscus rosa-sinensis</i> , <i>H. sabdariffa</i>
Gossypin-3-sulfate	<i>Malva sylvestris</i> , <i>M. rotundifolia</i>
Gossypol	<i>Gossypium herbaceum</i>
Gramme	<i>Hordeum vulgare</i>
Guaridine	<i>Benincasa hispida</i>
Gum	<i>Commiphora myrrha</i> , <i>C. molmol</i> , <i>C. myrrha</i> , <i>Eugenia caryophyllata</i> , <i>Ferula assa-foetida</i> , <i>Poterium officinale</i> , <i>Sanguisorba officinalis</i> , <i>Syzygium aromaticum</i> , <i>S. aromaticum</i> , <i>Tagetes minuta</i> , <i>T. lucida</i> , <i>Taraxacum officinale</i>

Component	Source
Guvacine	<i>Areca catechu</i>
Harpagide	<i>Ajuga reptans</i>
Harpagoside	<i>Scrophularia ningpoensis</i>
Havonoids	<i>Cryptotaenia japonica</i>
Hederacoside B	<i>Hedera helix</i>
Hederacoside C	<i>Hedera helix</i>
Hederin	<i>Hedera helix</i>
Helenalin	<i>Inula helenium</i>
Heliotropin	<i>Spiraea ulmaria</i>
Heneicosanic acid	<i>Areca catechu</i>
Heraclein	<i>Heracleum maximum</i> , <i>H. lanatum</i> , <i>H. sphondylium</i>
Herclavin	<i>Zanthoxylum americanum</i>
Herniarin	<i>Matricaria chamomilla</i>
Hesperidin	<i>Hyssopus officinalis</i>
Hexadecenoic acid	<i>Myristica fragrans</i>
Hibiscus acid	<i>Hibiscus sabdariffa</i> , <i>H. rosa-sinensis</i> , <i>Vaccinium vitis-idaea</i> , <i>V. macrocarpon</i>
Hirsutine	<i>Uncaria gambir</i>
Histamine	<i>Capsella bursa-pastoris</i> , <i>Jatropha gossypifolia</i> , <i>Thlaspi arvense</i> , <i>Urtica urens</i>
Histidine	<i>Raphanus sativus</i>
Hordenine	<i>Hordeum vulgare</i>
Hosenkosides	<i>Impatiens balsamina</i>
Humulene	<i>Elettaria cardamomum</i> , <i>Humulus lupulus</i>
Hydrangein	<i>Hydrangea arborescens</i>
Hydrociannic acid	<i>Acalypha indica</i> , <i>Aleurites moluccana</i>
Hydrocotyline	<i>Centella asiatica</i>
Hydrocoumarin	<i>Melilotus officinalis</i>
Hydrocyanic acid	<i>Aquilegia flavescens</i> , <i>Prunus armeniaca</i> , <i>P. americana</i>
Hydrojuglone	<i>Juglans regia</i>
Hydroquinones	<i>Chimaphila umbellata</i> , <i>Viburnum opulus</i> , <i>V. prunifolium</i>

Hydroxybenzoic acid	<i>Eucalyptus citriodora</i> , <i>E. globulus</i>
Hydroxycinnamic acid	<i>Cuscuta chinensis</i> , <i>C. epithymum</i>
Hydroxycoumarin	<i>Melilotus officinalis</i>
Hydroxyphenylethanol glycosides	<i>Syringa suspensa</i> , <i>S. vulgaris</i>
Hyoscine	<i>Datura innoxia</i> , <i>D. metel</i> , <i>D. stramonium</i> , <i>Hyoscyamus niger</i>
Hyoscyamine	<i>Datura innoxia</i> , <i>D. metel</i> , <i>D. stramonium</i> , <i>Hyoscyamus niger</i>
Hypaconitine	<i>Aconitum napellus</i> , <i>A. carmichaelii</i>
Hypericin	<i>Hypericum perforatum</i>
Hyperoside	<i>Betula lenta</i> , <i>B. pendula</i> , <i>B. verrucosa</i> , <i>Hypericum perforatum</i>
Idoflavones	<i>Glycine max</i>
Indole alkaloids	<i>Rauvolfia serpentina</i> , <i>Strychnos nux-vomica</i>
Inositol	<i>Cannabis sativa</i>
Inositol	<i>Juniperus communis</i> , <i>J. sabina</i> , <i>J. horizontalis</i> , <i>Lonicera caerulea</i> , <i>L. caprifolium</i> , <i>Phaseolus vulgaris</i>
Insulin-like peptide	<i>Momordica charantia</i>
Insulins	<i>Vaccinium myrtilloides</i> , <i>V. myrtillus</i> , <i>V. oreophilum</i>
Inulin	<i>Arctium lappa</i> , <i>Artemisia vulgaris</i> , <i>Dipsacus fullonum</i> , <i>Inula helenium</i> , <i>Solidago virgaurea</i> , <i>S. canadensis</i> , <i>Taraxacum officinale</i> , <i>Tussilago farfara</i>
Iodine	<i>Allium sativum</i> , <i>A. fistulosum</i> , <i>A. tuberosum</i> , <i>Artemisia dracunculus</i> , <i>Hedera helix</i> , <i>Laminaria digitata</i> , <i>L. saccharine</i> , <i>L. longicruris</i>
Iridals	<i>Belamcanda chinensis</i>
Iridin	<i>Belamcanda chinensis</i>
Iridoid glycosides	<i>Cornus officinalis</i> , <i>Menyanthes trifoliata</i> , <i>Pedicularis palustris</i> , <i>P. canadensis</i>
Iridoid valepotriates	<i>Galium aparine</i>
Iridoids	<i>Gelsemium sempervirens</i> , <i>Rubia tinctorum</i> , <i>Swertia chirata</i> , <i>Vaccinium myrtilloides</i> , <i>V. myrtillus</i> , <i>V. oreophilum</i> , <i>Vitex labrusca</i> , <i>V. agnus-castus</i>
Iridomyrmecin	<i>Actinidia polygama</i>
Irigenin	<i>Belamcanda chinensis</i>
Irisflorentin	<i>Belamcanda chinensis</i>
Iron	<i>Chaenomeles speciosa</i>
Iron manganese	<i>Lemna minor</i>

Component	Source
Isobetanine	<i>Phytolacca americana</i>
Isoborneol	<i>Cnidium monnieri</i>
Isocaproic acid	<i>Ananas comosus</i>
Isoferulic acid	<i>Cimicifuga foetida</i> , <i>C. racemosa</i>
Isoflavones	<i>Belamcanda chinensis</i> , <i>Cimicifuga racemosa</i> , <i>C. foetida</i> , <i>Medicago sativa</i>
Isoflavonoids	<i>Glycyrrhiza uralensis</i> , <i>Pueraria lobata</i> , <i>P. thunbergiana</i> , <i>Wisteria floribunda</i> , <i>W. brachybotrys</i>
Isofraxin	<i>Eleutherococcus senticosus</i>
Isoginkgetin	<i>Ginkgo biloba</i>
Isoguvacine	<i>Areca catechu</i>
Isomenthone	<i>Mentha spicata</i> , <i>M. x piperita</i>
Isonomatatabiol	<i>Actinidia polygama</i>
Isophthalic acid	<i>Ilex aquifolium</i> , <i>I. paraguensis</i> , <i>Iris versicolor</i> , <i>I. pseudacorus</i>
Isophytosterol	<i>Jatropha gossypifolia</i>
Isoprebetanine	<i>Phytolacca americana</i>
Isopsorlin	<i>Psoralea corylifolia</i>
Isopulegone	<i>Mentha pulegium</i>
Isoquercitin	<i>Adiantum capillus-junonis</i>
Isoquercitrin	<i>Jasaminum grandiflorum</i> , <i>J. officinale</i>
Isoquiniline	<i>Coptis chinensis</i>
Isoquiniline alkaloids	<i>Coptis groenlandica</i> , <i>C. trifolia</i> , <i>Chelidonium majus</i> , <i>Phellodendron amurense</i> , <i>P. chinensis</i>
Isorhamnetin	<i>Typha angustifolia</i> , <i>T. latifolia</i>
Isorhynchophylline	<i>Uncaria gambir</i>
Isosafrole	<i>Angelica polymorpha</i>
Isovaltrate	<i>Valeriana officinalis</i>
Isovitexin	<i>Jatropha gossypifolia</i>
Jacoline	<i>Senecio vulgaris</i> , <i>S. aureus</i>
Juglandin	<i>Juglans regia</i>
Juglone	<i>Juglans regia</i>
Juniperin	<i>Juniperus communis</i> , <i>J. sabina</i> , <i>J. horizontalis</i>

Jutrophine	<i>Jatropha gossypifolia</i>
Kaempferol	<i>Aesculus hippocastanum</i> , <i>Loranthus europaeus</i>
Kaempferol derivatives	<i>Impatiens balsamina</i>
Koenigin	<i>Murraya koenigii</i>
Kumatakenin	<i>Astragalus membranaceus</i> , <i>A. americana</i>
l-asparagine	<i>Paris quadrifolia</i>
l-citronellol	<i>Rosa acicularis</i> , <i>R. rugosa</i>
l-ephedrine	<i>Ephedra distachya</i> , <i>E. sinica</i> , <i>E. nevadensis</i>
l-homostarchydine	<i>Medicago sativa</i>
l-laudanidine	<i>Thalictrum dasycarpum</i> , <i>T. occidentale</i>
l-limonene	<i>Perilla frutescens</i>
l-phyllandrene	<i>Piper longum</i> , <i>P. nigrum</i>
l-zingiberene	<i>Zingiber officinale</i>
Laburnine	<i>Caulophyllum thalictroides</i>
Lactone protoanemonin	<i>Pulsatilla vulgaris</i>
Lactones	<i>Achillea millefolium</i> , <i>A. archangelica</i> , <i>Atractylodes macrocephala</i> , <i>Hierochloa odorata</i> , <i>Pulsatilla chinensis</i>
Lactones atractylenolide II	<i>Atractylodes macrocephala</i>
Lactones atractylenolide III	<i>Atractylodes macrocephala</i>
Lactrile	<i>Prunus armeniaca</i>
Lactucerin	<i>Lactuca serriola</i>
Lactucopicrin	<i>Lactuca serriola</i>
Laetrile	<i>Prunus mume</i> , <i>P. armericana</i>
Lanatoside	<i>Digitalis purpurea</i>
Lapase	<i>Aquilegia vulgaris</i>
Lauric acid	<i>Areca catechu</i> , <i>Menispermum palmatum</i> , <i>Myristica fragrans</i>
Lawson	<i>Impatiens pallida</i> , <i>I. capensis</i> , <i>Lawsonia inermis</i> , <i>Ledum palustre</i>
Lecithin	<i>Glycine max</i> , <i>Polygonum bistorta</i> , <i>P. hydropiper</i>
Lectins	<i>Calystegia sepium</i> , <i>Narcissus tazetta</i> , <i>Phytolacca acinosa</i> , <i>Ricinus communis</i>
Leonticine	<i>Corydalis yanhusuo</i> , <i>C. solida</i>
Leonuride	<i>Leonurus cardiaca</i>

Component	Source
Leonurin	<i>Leonurus cardiaca</i>
Leucine	<i>Phaseolus vulgaris</i>
Levulin	<i>Taraxacum officinale</i>
Lignans	<i>Artemisia absinthium</i> , <i>Biota orientalis</i> , <i>Carduus benedicta</i> , <i>Carthamus tinctorius</i> , <i>Cinnamomum camphora</i> , <i>Eleutherococcus senticosus</i> , <i>Schisandra chinensis</i> , <i>Sesamum indicum</i> , <i>Syringa suspensa</i> , <i>S. vulgaris</i> , <i>Viscum album</i> ,
Ligustilide	<i>Angelica archangelica</i>
Ligustrin	<i>Syringa suspensa</i> , <i>S. vulgaris</i>
Lilacin	<i>Syringa suspensa</i> , <i>S. vulgaris</i>
Limonene	<i>Anethum graveoleus</i> , <i>Angelica archangelica</i> , <i>Apium graveolens</i> , <i>Carum carvi</i> , <i>Cinnamomum cassia</i> , <i>Conyza</i> <i>canadensis</i> , <i>Erigeron canadensis</i> , <i>Hyssopus officinalis</i> , <i>Juniperus communis</i> , <i>J. sabina</i> , <i>J. sabina</i> , <i>J. horizontalis</i> , <i>Menispermum palmatum</i> , <i>Mentha arvensis</i> , <i>M. haplocalyx</i> , <i>M. spicata</i> , <i>M. x piperita</i> , <i>Schizonepeta tenuifolia</i> , <i>Tagetes erecta</i> , <i>T. patula</i>
Limonic acid	<i>Lonicera caerulea</i> , <i>L. caprifolium</i>
Linalool	<i>Acorus calamus</i> , <i>A. gramineus</i> , <i>Alpinia galanga</i> , <i>Conyza canadensis</i> , <i>Coriandrum sativum</i> , <i>Erigeron</i> <i>canadensis</i> , <i>Tagetes patula</i> , <i>T. erecta</i>
Linalyl acetate	<i>Tagetes patula</i>
Linamarin	<i>Linum usitatissimum</i>
Linarin	<i>Linaria vulgaris</i>
Linoleic acid	<i>Aleurites moluccanu</i> , <i>Allium sativum</i> , <i>A. fistulosum</i> , <i>A. tuberosum</i> , <i>Angelica polymorpha</i> , <i>Apium graveolens</i> , <i>Aquilegia vulgaris</i> , <i>Chrysanthemum cinerariaefolium</i> , <i>Cucumis sativus</i> , <i>Cucurbita maxima</i> , <i>Linum</i> <i>usitatissimum</i> , <i>Myristica fragrans</i> , <i>Oenothera biennis</i> , <i>Plantago asiatica</i> , <i>P. psyllium</i> , <i>Pyrethrum</i> <i>cinerariifolium</i> , <i>Sesamum indicum</i> , <i>Solanum nigrum</i> , <i>Trigonella foenum-graecum</i> , <i>Vitis vinifera</i>
Linolenic acid	<i>Aleurites moluccanu</i> , <i>Linum usitatissimum</i> , <i>Oenothera biennis</i> , <i>Stellaria media</i> , <i>Trigonella foenum-graecum</i>
Linseed oil	<i>Linum usitatissimum</i>
Lipids	<i>Daucus carota</i>
Lithospermic acid	<i>Lithospermum erythrorhizon</i> , <i>L. officinale</i>
Lobelanidine	<i>Lobelia inflata</i>
Lobelidiol	<i>Lobelia inflata</i>

Lobeline	<i>Lobelia inflata</i>
Loganin	<i>Strychnos nux-vomica</i>
Lupulone	<i>Humulus lupulus</i>
Lutein-7-primveroside	<i>Campanula rotundifolia</i> , <i>C. palustris</i>
Luteolin	<i>Agrimonia eupatoria</i> , <i>Matricaria chamomilla</i> , <i>Mentha spicata</i> , <i>M. x piperita</i> , <i>Thymus vulgaris</i>
Luteolin-7-0-beta-D-glucopyranosil	<i>Campanula rotundifolia</i> , <i>C. palustris</i>
Lutolin	<i>Thymus capitatus</i> , <i>T. citriodorus</i> , <i>T. praecox</i> , <i>T. pulegiodes</i> , <i>T. serpyllum</i> , <i>T. vulgaris</i>
Lycopodine	<i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>L. annotinum</i>
Lysine	<i>Lemna minor</i>
Madasiatic acids	<i>Centella asiatica</i>
Madecassic	<i>Centella asiatica</i>
Magnesium	<i>Chaenomeles speciosa</i>
Magnocurarine	<i>Magnolia liliflora</i> , <i>M. officinalis</i>
Magnoflorine	<i>Berberis aquifolium</i> , <i>Caulophyllum thalictroides</i> , <i>Mahonia aquifolium</i> , <i>Menispermum canadense</i>
Malic acid	<i>Ananas comosus</i> , <i>Cornus florida</i> , <i>Fragaria vesca</i> , <i>Hibiscus sabdariffa</i> , <i>H. rosa-sinensis</i> , <i>Lonicera caerulea</i> , <i>L. caprifolium</i> , <i>Prunus mume</i> , <i>Rosa acicularis</i> , <i>R. rugosa</i> , <i>R. canina</i> , <i>R. damascena</i> , <i>R. gallica</i> , <i>Salvia</i> <i>officinalis</i> , <i>Tussilago farfara</i> , <i>Vitis vinifera</i>
Mallol	<i>Pinus albaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i>
Malonic acid	<i>Aconitum carmichaelii</i> , <i>A. napellus</i>
Malvin	<i>Malva sylvestris</i> , <i>M. rotundifolia</i>
Mannitol	<i>Rehmannia glutinosa</i>
Margaric acid	<i>Areca catechu</i>
Massoilactone	<i>Hierochloe odorata</i>
Mastic acid	<i>Pistacia lentiscus</i>
Masticin	<i>Pistacia lentiscus</i>
Matatabic acid	<i>Actinidia polygama</i>
Matatabiether	<i>Actinidia polygama</i>
Matatabistic acid	<i>Actinidia polygama</i>
Maysin	<i>Zea mays</i>
Meconic acid	<i>Papaver somniferum</i>

Component	Source
Meliacins	<i>Melia azedarach</i>
Melosatin D	<i>Melochia tomentosa</i>
Melovinone	<i>Melochia tomentosa</i>
Menthol	<i>Achillea millefolium</i> , <i>Mentha arvensis</i> , <i>M. haplocalyx</i> , <i>M. pulegium</i> , <i>M. spicata</i> , <i>M. x piperita</i>
Menthone	<i>Mentha arvensis</i> , <i>M. haplocalyx</i> , <i>M. spicata</i> , <i>M. x piperita</i> , <i>Schizonepeta tenuifolia</i>
Menthyl acetate	<i>Mentha arvensis</i> , <i>M. haplocalyx</i>
Mesaconitine	<i>Aconitum carmichaelii</i> , <i>A. napellus</i>
Mesoinositol	<i>Clerodendrum trichotomum</i>
Methylxanthines	<i>Camellia sinensis</i>
Methyl chavicol	<i>Artemisia dracunculus</i>
Methyl salicylate	<i>Chimaphila umbellata</i> , <i>Dianthus caryophyllus</i> , <i>Erythroxylum coca</i> , <i>Gaultheria procumbens</i>
Methyl chavicol	<i>Illicium verum</i>
Methyl salicylate	<i>Betula lenta</i> , <i>B. pendula</i> , <i>B. verrucosa</i> , <i>Polygala senega</i>
Methyl-n-propyl ketone	<i>Ananas comosus</i>
Methylamine	<i>Acorus calamus</i> , <i>A. gramineus</i>
Methylchavicol	<i>Agastache anethrodora</i> , <i>A. foeniculum</i>
Methylcytisine	<i>Caulophyllum thalictroides</i> , <i>Cimicifuga racemosa</i>
Mezerein	<i>Daphne genkwa</i> , <i>D. mezereum</i>
Mineral elements	<i>Oxyria digyna</i>
Minerals	<i>Cardamine pratensis</i> , <i>Glycine max</i> , <i>Phragmites communis</i> , <i>Smilax china</i> , <i>S. aristolochiifolia</i> , <i>Solanum tuberosum</i>
Monoterpene glycosides	<i>Vitis vinifera</i>
Monoterpenes	<i>Aster tataricus</i>
Monoterpenoid glycosides	<i>Paeonia suffruticosa</i> , <i>P. lactiflora</i> , <i>P. albiflora</i>
Morindin	<i>Morinda didyma</i> , <i>M. fistulosa</i> , <i>M. punctata</i>
Mormordicine	<i>Momordica charantia</i>
Mormordin	<i>Momordica charantia</i>
Morphine	<i>Papaver somniferum</i> , <i>P. rhoeas</i> , <i>P. bracteatum</i>

Mucilage	<i>Abutilon indicum</i> , <i>Acacia catechu</i> , <i>Acorus calamus</i> , <i>A. gramineus</i> , <i>Adiantum capillus-junonis</i> , <i>Althaea officinalis</i> , <i>Arctium lappa</i> , <i>Calendula officinalis</i> , <i>Cassia angustifolia</i> , <i>C. senna</i> , <i>Castanea sativa</i> , <i>Celtis australis</i> , <i>Chamaenerion angustifolium</i> , <i>Chrysanthemum parthenium</i> , <i>Cinnamomum zegglicum</i> , <i>Citrus aurantium</i> , <i>Cydonia oblonga</i> , <i>Daphne genkwa</i> , <i>D. mezereum</i> , <i>Epilobium angustifolium</i> , <i>Gelidium cartilagineum</i> , <i>Glycyrrhiza glabra</i> , <i>Hibiscus rosa-sinensis</i> , <i>H. sabdariffa</i> , <i>Inula helenium</i> , <i>Linaria vulgaris</i> , <i>Linum usitatissimum</i> , <i>Lobelia chinensis</i> , <i>Malva sylvestris</i> , <i>M. rotundifolia</i> , <i>Orchis mascula</i> , <i>Papaver somniferum</i> , <i>Phytolacca acinosa</i> , <i>Plantago major</i> , <i>P. asiatica</i> , <i>P. psyllium</i> , <i>Polygala vulgaris</i> , <i>P. multiflorum</i> , <i>P. polygonum</i> , <i>P. aviculare</i> , <i>P. viviparum</i> , <i>Portulaca oleracea</i> , <i>Thuja occidentalis</i> , <i>T. cordata</i> , <i>T. europaea</i> , <i>Tussilago farfara</i> , <i>Ulmus rubra</i> , <i>U. procera</i> , <i>Verbena officinalis</i> , <i>Viola tricolor</i> , <i>Zea mays</i> , <i>Ziziphus jujuba</i> .
Mustard oil	<i>Sinapis alba</i>
Mustard-oil glycosides	<i>Brassica alba</i> , <i>B. juncea</i>
Myoinositol	<i>Paeonia lactiflora</i>
Myrcene	<i>Chenopodium ambrosioides</i> , <i>Mentha spicata</i> , <i>M. x piperita</i> , <i>Juniperus rigida</i>
Myricetin	<i>Platycladus occidentalis</i>
Myricyl alcohol	<i>Iris versicolor</i> , <i>I. pseudacorus</i>
Myristic acid	<i>Apium graveolens</i> , <i>Areca catechu</i> , <i>Hibiscus rosa-sinensis</i> , <i>H. sabdariffa</i> , <i>L. clavatum</i> , <i>L. obscurum</i> , <i>Menispermum palmatum</i>
Myristicin	<i>Cryptotaenia japonica</i> , <i>Myristica fragrans</i>
Myristoleic acid	<i>Apium graveolens</i>
Myrtocyan	<i>Vaccinium myrtilloides</i> , <i>V. myrtillus</i> , <i>V. oreophilum</i>
N'-desmethyldauricine	<i>Menispermum canadense</i>
n-butylidenephthalide	<i>Angelica archangelica</i>
n-coumaric	<i>Campanula rotundifolia</i> , <i>C. palustris</i>
n-coumaric acid	<i>Matricaria chamomilla</i>
n-dodecanol	<i>Angelica polymorpha</i>
n-methyl anabasine	<i>Sedum acre</i>
n-pentadecane	<i>Kaempferia galanga</i>
n-tetradecanol	<i>Angelica polymorpha</i>
n-trans-coumaroyltyramine	<i>Tribulus terrestris</i>
n-trans-feruloyltyramine	<i>Tribulus terrestris</i>

Component	Source
Napelline	<i>Aconitum napellus</i> , <i>A. carmichaelii</i>
Naphthaquinones	<i>Drosera rotundifolia</i> , <i>Lawsonia inermis</i> , <i>Ledum palustre</i>
Naphthalene glycosides	<i>Cassia senna</i> , <i>C. angustifolia</i>
Narcotine	<i>Papaver somniferum</i>
Neo-nepetalactone	<i>Actinidia polygama</i>
Neohesperidin	<i>Zanthoxylum americanum</i>
Neoline	<i>Aconitum napellus</i> , <i>A. carmichaelii</i>
Neomatabiol	<i>Actinidia polygama</i>
Neothujic acid	<i>Platycladus occidentalis</i>
Nepodin	<i>Rumex crispus</i>
Neriin	<i>Nerium oleander</i>
Niacin	<i>Camellia sinensis</i> , <i>Rorippa nasturtium-aquaticum</i>
Nicotine	<i>Equisetum arvense</i> , <i>E. hyemale</i> , <i>Erythroxylum coca</i> , <i>Nicotiana tabacum</i>
Nicotinic acid	<i>Daucus carota</i> , <i>Lycopersicon esculentum</i> , <i>Trigonella foenum-graecum</i> , <i>Uncaria gambir</i>
Nigerine (N,N-dimethyltryptamine)	<i>Mimosa pudica</i> , <i>M. hostilis</i>
Nitryl-glycoside	<i>Aquilegia vulgaris</i>
Nonadecanoid	<i>Areca catechu</i>
Norargemonine	<i>Thalictrum dasycarpum</i> , <i>T. occidentale</i>
Nupharine	<i>Nymphaea alba</i>
Nymphaeine	<i>Nymphaea alba</i>
Ocimene	<i>Tagetes patula</i>
Octacosanol	<i>Melochia tomentosa</i>
Octadecatetraenic acid	<i>Stellaria media</i>
Oleandomycin	<i>Nerium oleander</i>
Oleandrin	<i>Nerium oleander</i>
Oleic acid	<i>Aleurites moluccanu</i> , <i>Apium graveolens</i> , <i>Aquilegia vulgaris</i> , <i>Centella asiatica</i> , <i>Cucumis sativus</i> , <i>C. maxima</i> , <i>Linum usitatissimum</i> , <i>Myristica fragrans</i> , <i>Plantago asiatica</i> , <i>P. psyllium</i> , <i>Sesamum indicum</i> , <i>Trigonella</i> <i>foenum-graecum</i> , <i>Vitis vinifera</i>
Oleo-resins	<i>Aspidium filix-mis</i> , <i>Dryopteris filix-mas</i> , <i>Catharanthus roseus</i> , <i>Matteuccia struthiopteris</i>

Oleostearic acid	<i>Aleurites moluceanu</i>
Oligopeptides	<i>Prunus mume</i>
Organic acids	<i>Rubus coreanus</i> , <i>R. fruiticosus</i> , <i>Sorbus aucuparia</i>
Oripavine	<i>Papaver rhoeas</i> , <i>P. bracteatum</i>
Oxalates	<i>Rumex crispus</i> , <i>R. acetosella</i> , <i>R. aquaticus</i> , <i>R. obtusifolia</i>
Oxalic acid	<i>Salvia officinalis</i>
Oxyberberine	<i>Berberis aquifolium</i> , <i>Mahonia aquifolium</i>
Oxylenzoic acid	<i>Bignonia catalpa</i>
p-coumaric acid	<i>Matteuccia struthiopteris</i> , <i>Trifolium pratense</i> , <i>T. pratense</i>
p-hydroxybenzoic	<i>Matteuccia struthiopteris</i>
p-methoxystyrene	<i>Kaempferia galanga</i>
Pachymic acid	<i>Poria cocos</i>
Paenoflorin	<i>Paeonia albiflora</i>
Paeonine	<i>Paeonia officinalis</i>
Paeonol	<i>Paeonia lactiflora</i>
Paliloleic acid	<i>Apium graveolens</i>
Palmitic acid	<i>Acorus calamus</i> , <i>A. gramineus</i> , <i>Angelica polymorpha</i> , <i>Apium graveolens</i> , <i>Aquilegia vulgaris</i> , <i>Areca catechu</i> , <i>Chrysanthemum cinerariaefolium</i> , <i>Cucumis sativus</i> , <i>Hibiscus sabdariffa</i> , <i>H. rosa-sinensis</i> , <i>Matteuccia struthiopteris</i> , <i>Menispermum palmatum</i> , <i>Paeonia lactiflora</i> , <i>Plantago asiatica</i> , <i>P. psyllium</i> , <i>Pyrethrum cinerariifolium</i> , <i>Solanum nigrum</i> , <i>Thevetia peruviana</i> , <i>Trigonella foenum-graecum</i> , <i>Vitis vinifera</i>
Panaxosides	<i>Panax quinquefolium</i> , <i>P. ginseng</i>
Pantothenic acid	<i>Lycopersicon esculentum</i>
Papaverine	<i>Papaver somniferum</i>
Paradin	<i>Paris quadrifolia</i>
Paridol	<i>Paris quadrifolia</i>
Parinaric acid	<i>Impatiens balsamina</i>
Paristypnine	<i>Paris quadrifolia</i>
Pectin	<i>Althaea officinalis</i> , <i>Catharanthus roseus</i> , <i>Cydonia oblonga</i> , <i>Eleutherococcus senticosus</i> , <i>Fragaria vesca</i> , <i>Paris quadrifolia</i> , <i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i> , <i>Ribes nigrum</i> , <i>Rosa acicularis</i> , <i>R. rugosa</i> , <i>R. canina</i> , <i>R. damascena</i> , <i>R. gallica</i> , <i>Rubus idaeus</i> , <i>Sorbus aucuparia</i> , <i>Tagetes minuta</i> , <i>T. lucida</i> , <i>Crataegus laevigata</i> , <i>C. monogyna</i> , <i>C. oxyacantha</i>

Component	Source
Peimine	<i>Fritillaria verticillata</i>
Pelargonidin glycosides	<i>Anemone pulsatilla</i>
Pelletierene alkaloids	<i>Punica granatum</i>
Pentacosane	<i>Typha angustifolia</i> , <i>T. latifolia</i>
Pentagalloyl glucoside	<i>Paeonia lactiflora</i>
Pentane	<i>Paeonia lactiflora</i> , <i>P. albiflora</i>
Pentoses	<i>Artemisia tridentata</i>
Peregrinine	<i>Ulmus rubra</i> , <i>U. procera</i>
Perillanin chloride	<i>Paeonia officinalis</i>
Perlyrin	<i>Perilla frutescens</i>
Petroselaidic acid	<i>Codonopsis pilosula</i> , <i>C. tangshen</i>
Petroselinic acid	<i>Apium graveolens</i>
Phanol	<i>Apium graveolens</i>
Phelandrine	<i>Rumex obtusifolia</i>
Phenol	<i>Artemisia dracunculus</i>
Phenolic acid	<i>Menispermum palmatum</i> , <i>Rumex acetosella</i> , <i>R. aquaticus</i> , <i>Sesamum indicum</i>
	<i>Artemisia absinthium</i> , <i>Equisetum hyemale</i> , <i>E. hirta</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>Lycopus virginicus</i> , <i>Menyanthes trifoliata</i> , <i>Oenothera biennis</i> , <i>Polygala senega</i> , <i>Salix alba</i> , <i>S. discolor</i> , <i>Sambucus nigra</i> , <i>S. canadensis</i> , <i>Scrophularia ningpoensis</i>
Phenolic glycosides	<i>Geum aleppicum</i> , <i>G. urbanum</i> , <i>Populus balsamifera</i> , <i>P. candicans</i> , <i>Trifolium pratense</i>
Phenolic flavonols	<i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i>
Phenols	<i>Laminaria digitata</i> , <i>L. saccharine</i> , <i>L. longicuris</i> , <i>Myrica cerifera</i> , <i>M. penxylvanica</i> , <i>Primula vulgaris</i> , <i>P. veris</i>
Phenyl ethyl	<i>Rorippa nasturtium-aquaticum</i>
Phenyl-propanoid glycosides	<i>Pedicularis palustris</i> , <i>P. canadensis</i>
Phenylprepyl cinnamate	<i>Liquidambar orientalis</i> , <i>L. styraciflua</i>
Phenylpropanoids	<i>Aster tataricus</i> , <i>Eleutherococcus senticosus</i>
Phlobaphenes	<i>Alnus crispus</i> , <i>A. glutinosa</i> , <i>Potentilla erecoa</i> , <i>P. tormentilla</i>
Phthalides	<i>Cryptotaenia japonica</i> , <i>Ligusticum scoticum</i> , <i>L. lucidum</i> , <i>L. vulgare</i>

Phyllandrene	<i>Angelica archangelica</i> , <i>Cinnamomum cassia</i>
Physalin	<i>Lycium barbarum</i> , <i>L. pallidum</i> , <i>Physalis alkekengi</i>
Physcion	<i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i> , <i>Rumex acetosella</i> , <i>R. aquaticus</i> , <i>R. obtusifolia</i>
Phytic acid	<i>Glycine max</i>
Phytin	<i>Daucus carota</i>
Phytoene	<i>Crocus sativus</i>
Phytofluene	<i>Crocus sativus</i>
Phytosterols	<i>Calendula officinalis</i> , <i>Cannabis sativa</i> , <i>Marsdenia condurango</i> , <i>Physalis franchetti</i> , <i>P. pubescens</i> , <i>Rehmannia glutinosa</i> , <i>Schisandra chinensis</i> , <i>Smilax china</i> , <i>S. aristolochiifolia</i> , <i>Tilia cordata</i> , <i>T. europaea</i> , <i>Typha angustifolia</i> , <i>T. latifolia</i>
Pigments	<i>Tussilago farfara</i>
Pinecamphene	<i>Hyssopus officinalis</i>
Pinene	<i>Asarum canadense</i> , <i>Cinnamomum cassia</i> , <i>Cnidium monnieri</i> , <i>Crocus sativus</i> , <i>Cryptotaenia japonica</i> , <i>Elettaria cardamomum</i> , <i>Hyssopus officinalis</i> , <i>Juniperus communis</i> , <i>J. sabina</i> , <i>J. sabina</i> , <i>J. horizontalis</i> , <i>Mentha spicata</i> , <i>M. x piperita</i> , <i>Menispermum palmatum</i>
Piperidine	<i>Piper cubeba</i>
Piperine	<i>Piper nigrum</i> , <i>P. longum</i>
Plastoquinones	<i>Castanea sativa</i>
Podophyllotoxin type lignans	<i>Platycladus occidentalis</i>
Polyacetylenes	<i>Aster tataricus</i> , <i>Carduus benedita</i>
Polygalic acid	<i>Solidago canadensis</i> , <i>S. virgaurea</i>
Polygalitol	<i>Polygala senega</i>
Polynes	<i>Oplopanax horridus</i>
Polypeptides	<i>Capsella bursa-pastoris</i> , <i>Thlaspi arvense</i>
Polyphenolic acids	<i>Galium aparine</i>
Polyphenols	<i>Camellia sinensis</i> , <i>Humulus lupulus</i> , <i>Lycopodium annotinum</i> , <i>L. clavatum</i> , <i>L. obscurum</i> , <i>Polygonum</i> <i>multiflorum</i> , <i>P. aviculare</i> , <i>P. viviparum</i>
Polysaccharides	<i>Agrimonia eupatoria</i> , <i>Carthamus tinctorius</i> , <i>Carum carvi</i> , <i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>Eleutherococcus senticosus</i> , <i>Gelidium cartilagineum</i> , <i>Laminaria digitata</i> , <i>L. saccharine</i> , <i>L. longicuris</i> , <i>Lobelia pulmonaria</i> , <i>Panax ginseng</i> , <i>P. quinquefolium</i> , <i>Phragmites australis</i> , <i>Prunus mume</i> , <i>Urtica urens</i>
Populin	<i>Populus tremuloides</i>

Component	Source
Porphyrins	<i>Medicago sativa</i>
Potassium	<i>Chaenomeles speciosa</i>
Proanthocyanidins	<i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i>
Procyanidins	<i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i> , <i>Platycladus occidentalis</i>
Progesteron	<i>Dioscorea opposita</i>
Protein	<i>Aleurites moluccanu</i> , <i>Avena sativa</i> , <i>Coriandrum sativum</i> , <i>Glycine max</i> , <i>Oxyria digyna</i> , <i>Perilla frutescens</i> , <i>Phragmites communis</i> , <i>P. australis</i> , <i>Pimpinella anisum</i> , <i>Piper longum</i> , <i>P. nigrum</i> , <i>Sesamum indicum</i> , <i>Solanum aculeatissimum</i> , <i>S. melongena</i> , <i>Trigonella foenum-graecum</i> , <i>Viscum album</i>
Protoalkaloids	<i>Ephedra sinica</i>
Protoalnulin	<i>Alnus crispus</i> , <i>A. glutinosa</i>
Protoanemonin	<i>Clematis vitalba</i> , <i>C. virginiana</i> , <i>Pulsatilla chinensis</i>
Protoanemonoid compound	<i>Actaea rubra</i> , <i>A. alba</i>
Protoberberine alkaloids	<i>Berberis aquifolium</i> , <i>Mahonia aquifolium</i>
Protocatechetic acid	<i>Bignonia catalpa</i>
Protocatechuic	<i>Matteuccia struthiopteris</i>
Protopine	<i>Corydalis yanhusuo</i> , <i>C. solida</i>
Provitamin A	<i>Hippophae rhamnoides</i> , <i>Taraxacum officinale</i>
Prussic acid	<i>Prunus armeniaca</i>
Pseudocuramine	<i>Nerium oleander</i>
Pseudoephedrine	<i>Ephedra nevadensis</i>
Pseudohypericin	<i>Hypericum perforatum</i>
Psoralen	<i>Heracleum maximum</i> , <i>H. lanatum</i> , <i>H. sphondylium</i>
Psoraline	<i>Psoralea corylifolia</i>
Psyllic acid	<i>Lycium barbarum</i> , <i>L. pallidum</i>
Puerarin	<i>Pueraria thunbergiana</i> , <i>P. lobata</i>
Pulegone	<i>Menispermum palmatum</i> , <i>Mentha pulegium</i>
Pulin	<i>Taraxacum officinale</i>
Pulsatoside	<i>Pulsatilla chinensis</i>
Purgative oil	<i>Jatropha gossypifolia</i>

Purine	<i>Camellia sinensis</i>
Purpurea-glycosides A	<i>Digitalia purpurea</i>
Purpurea-glycosides B	<i>Digitalia purpurea</i>
Purpurin	<i>Rubia tinctorum</i>
Pyrethrins	<i>Chrysanthemum cinerriaefolium</i> , <i>Pyrethrum cinerariifolium</i>
Pyrogallol	<i>Leonurus cardiaca</i>
Pyrrolizidine	<i>Senecio vulgaris</i> , <i>S. aureus</i>
Pyrrolizidine alkaloids	<i>Tussilago farfara</i>
Quassin	<i>Ailanthus altissima</i> , <i>A. glandulosa</i> , <i>Picrasma excelsa</i>
Quassinoids	<i>Ailanthus altissima</i> , <i>A. glandulosa</i> , <i>Picrasma excelsa</i>
Querbrachitol	<i>Acalypha indica</i>
Quercetin	<i>Aesculus hippocastanum</i> , <i>Cornus canadensis</i> , <i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i> , <i>Hippophae rhamnoides</i> , <i>Hypericum perforatum</i> , <i>Impatiens balsamina</i> , <i>Loranthus europaeus</i> , <i>Urtica urens</i>
Ranunculin	<i>Anemone pulsatilla</i>
Raphanol	<i>Rorippa nasturtium-aquaticum</i>
Raphanolide	<i>Rorippa nasturtium-aquaticum</i>
Rehmannin	<i>Rehmannia glutinosa</i>
Rescinnamine	<i>Rauvolfia serpentina</i>
Rescrpine	<i>Alstonia scholaris</i> , <i>Rauvolfia serpentina</i>
Resins	<i>Acacia catechu</i> , <i>Acalypha indica</i> , <i>Actaea rubra</i> , <i>A. alba</i> , <i>Aesculus hippocastanum</i> , <i>Aletris farinosa</i> , <i>Alnus crispus</i> , <i>A. glutinosa</i> , <i>Anemone pulsatilla</i> , <i>Arctium lappa</i> , <i>Arenaria rubra</i> , <i>Artemisia vulgarts</i> , <i>Aspidium filix-mis</i> , <i>Berberis vulgaris</i> , <i>Calendula officinalis</i> , <i>Cimicifuga foetida</i> , <i>C. racemosa</i> , <i>Commiphora myrrha</i> , <i>C. molmol</i> , <i>Convolvulus jajapa</i> , <i>Cornus florida</i> , <i>Curcuma longa</i> , <i>Dryopteris filix-mas</i> , <i>Eleutherocossus senticosus</i> , <i>Eriobotrya japonica</i> , <i>Euphorbia lathyrus</i> , <i>Ferula assa-foetida</i> , <i>Glechoma hederacea</i> , <i>Humulus lupulus</i> , <i>Inula helenium</i> , <i>Jatropha gopsiifolia</i> , <i>Juniperus rigida</i> , <i>J. communis</i> , <i>J. sabina</i> , <i>J. horizontalis</i> , <i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>Melilotus alba</i> , <i>M. arvensis</i> , <i>M. officinalis</i> , <i>Myrica cerifera</i> , <i>M. penxylvanica</i> , <i>Nymphaea alba</i> , <i>Papaver somniferum</i> , <i>Phytolacca acinosa</i> , <i>Pinus albicaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i> , <i>Piper cubeba</i> , <i>Rubia tinctorum</i> , <i>Saponaria officinalis</i> , <i>Saussurea lappa</i> , <i>Senecio aureus</i> , <i>S. vulgaris</i> , <i>Smilax china</i> , <i>S. aristolochiifolia</i> , <i>Tagetes minuta</i> , <i>T. lucida</i> , <i>Taxus x media</i> , <i>T. brevifolia</i> , <i>Terminalia chebula</i> , <i>Thevetia peruviana</i> , <i>Trillium erectum</i> , <i>Viburnum opulus</i> , <i>V. prunifolium</i> , <i>Viscum album</i> , <i>Zanthoxylum americanum</i> , <i>Zea mays</i>

Component	Source
Retinol	<i>Oxyria digyna</i>
Rhamnetin-3-0-beta-D-galactoside	<i>Campanula rotundifolia</i> , <i>C. palustris</i>
Rhein	<i>Cassia angustifolia</i> , <i>C. senna</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i>
Rhein anthrones	<i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i>
Rhodioloside	<i>Rhodiola rosea</i>
Rhyncophylline	<i>Uncaria gambir</i>
Riboflavin	<i>Lycopersicon esculentum</i>
Ricin	<i>Ricinus communis</i>
Ricinine	<i>Ricinus communis</i>
Ricinoleic acid	<i>Ricinus communis</i>
Rosagenin	<i>Nerium oleander</i>
Rotenone	<i>Tephrosia virginiana</i>
Ruberythric acid	<i>Rubia tinctorum</i>
Rutin	<i>Adiantum capillus-junonis</i> , <i>Artemisia dracunculus</i> , <i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i> , <i>Fagopyrum turticum</i> , <i>F. esculentum</i> , <i>Hypericum perforatum</i> , <i>Nerium oleander</i> , <i>Sambucus racemosa</i>
Sabinen	<i>Biota orientalis</i>
Sabinene	<i>Elettaria cardamomum</i> , <i>Juniperus rigida</i>
Safranal	<i>Crocus sativus</i>
Safrole	<i>Angelica polymorpha</i> , <i>Cinnamomum camphora</i> , <i>Illicium verum</i> , <i>Myristica fragrans</i>
Saikosides	<i>Bupleurum falcatum</i>
Salicarin	<i>Lythrum salicaria</i>
Salicin	<i>Populus tremuloides</i> , <i>Salix alba</i> , <i>Salix discolor</i>
Salicortin	<i>Salix alba</i> , <i>S. discolor</i>
Salicylates	<i>Cimicifuga racemosa</i> , <i>Spiraea ulmaria</i>
Salicylic acid	<i>Cimicifuga foetida</i> , <i>Ilex aquifolium</i> , <i>I. paraguensis</i> , <i>Iris versicolor</i> , <i>I. pseudacorus</i> , <i>Lonicera japonica</i> , <i>L. caerulea</i> , <i>L. caprifolium</i> , <i>Rubus chamaemorus</i> , <i>Solidago virgaurea</i> , <i>S. canadensis</i> , <i>Trifolium pratense</i> , <i>T. incarnatum</i>
Salicylic compounds	<i>Viola tricolor</i>
Salvin	<i>Salvia officinalis</i>

Sanguisorbic acid	<i>Poterium officinale</i> , <i>Sanguisorba officinalis</i>
Santalols	<i>Santalum album</i>
Santhophylls	<i>Bidens tripartita</i>
Sapogenin	<i>Dioscorea opposita</i> , <i>Saponaria officinalis</i>
Saponins	<i>Acorus calamus</i> , <i>A. gramineus</i> , <i>Aesculus hippocastanum</i> , <i>Anagalis arvensis</i> , <i>Anemone pulsatilla</i> , <i>Aster tataricus</i> , <i>A. tataricus</i> , <i>Avena sativa</i> , <i>Benincasa hispida</i> , <i>Betula lenta</i> , <i>B. pendula</i> , <i>B. verrucosa</i> , <i>Calendula officinalis</i> , <i>Catharanthus roseus</i> , <i>Centella asiatica</i> , <i>Chenopodium ambrosioides</i> , <i>Clematis vitalba</i> , <i>C. virginiana</i> , <i>Cornus officinalis</i> , <i>C. florida</i> , <i>Digitalis purpurea</i> , <i>Eclipta alba</i> , <i>E. prostrata</i> , <i>Entada phaseoloides</i> , <i>Ephedra sinica</i> , <i>Glechoma hederacea</i> , <i>Glycine max</i> , <i>Glycyrrhiza glabra</i> , <i>Hydrangea arborescens</i> , <i>Impatiens balsamina</i> , <i>Leonurus cardiaca</i> , <i>Lysimachia vulgaris</i> , <i>Polygonatum odoratum</i> , <i>P. multiflorum</i> , <i>P. biflorum</i> , <i>Prunella vulgaris</i> , <i>Ranunculus ficaria</i> , <i>Saponaria officinalis</i> , <i>Solidago virgaurea</i> , <i>S. canadensis</i> , <i>Thymus vulgaris</i> , <i>T. capitatus</i> , <i>T. citriodorus</i> , <i>T. praecox</i> , <i>T. pulegioides</i> , <i>T. serpyllum</i> , <i>T. vulgaris</i> , <i>Tribulus terrestris</i> , <i>Trillium erectum</i> , <i>Viola tricolor</i> , <i>Zea mays</i> , <i>Ziziphus jujuba</i>
Sarsapic acid	<i>Smilax china</i> , <i>S. aristolochiifolia</i>
Saussarine	<i>Saussurea lappa</i>
Scabioside	<i>Dipsacus fullonum</i>
Sciadopitysin	<i>Ginkgo biloba</i>
Scoparoside	<i>Cytisus scoparius</i>
Scopoletin	<i>Picrasma excelsa</i>
Scordinins	<i>Allium sativum</i> , <i>A. fistulosum</i> , <i>A. tuberosum</i>
Scutellarin	<i>Scutellaria baicalensis</i> , <i>S. macrantha</i> , <i>S. lateriflora</i>
Secoiridoid glucosides	<i>Centaurium erythraea</i>
Secoiridoids	<i>Erythrina centaurium</i>
Sedacrine	<i>Sedum acre</i>
Sedacryptine	<i>Sedum acre</i>
Sedinine	<i>Sedum acre</i>
Selenium	<i>Allium sativum</i> , <i>A. fistulosum</i> , <i>A. tuberosum</i>
Senecionine	<i>Senecio vulgaris</i> , <i>S. aureus</i>
Seneciphyline	<i>Senecio vulgaris</i> , <i>S. aureus</i>
Sennoside A	<i>Cassia angustifolia</i> , <i>C. senna</i>

Component	Source
Sennoside B	<i>Cassia angustifolia</i> <i>C. senna</i>
Serine	<i>Lycopersicon esculentum</i>
Serotonin	<i>Phragmites australis</i> , <i>Urtica urens</i>
Sesquiterpene	<i>Achillea millefolium</i> , <i>Acorus calamus</i> , <i>A. gramineus</i> , <i>Angelica polymorpha</i> , <i>Aster tataricus</i> , <i>Biota orientalis</i> , <i>Catharanthus roseus</i> , <i>Eugenia caryophyllata</i> , <i>Glechoma hederacea</i> , <i>Oplopanax horridus</i> , <i>Pyrola</i> <i>rotundifolia</i> , <i>Saussurea lappa</i> , <i>S. lappa</i> , <i>Syzygium aromaticum</i> , <i>S. aromaticum</i>
Sesquiterpenic alcohol	<i>Angelica polymorpha</i>
Sesquiterpene hydrocarbons	<i>Santalum album</i>
Sesquiterpene lactones	<i>Alpinia galanga</i> , <i>Blumea balsumifera</i> , <i>Carduus benedita</i> , <i>Chrysanthemum cinerriaefolium</i> , <i>C. parthenium</i> , <i>Eupatorium perfoliatum</i> , <i>Geum aleppicum</i> , <i>G. urbanum</i> , <i>Lactuca serriola</i> <i>Phellodendron amurense</i> , <i>P. chinensis</i> , <i>Pyrethrum</i> , <i>cinerariifolium</i>
Sesquiterpenes patchoulol	<i>Pogostemon cablin</i>
Sesquiterpenoid	<i>Ferula assa-foetida</i>
Shikimic acid	<i>Euphorbia hirta</i>
Shishonin	<i>Perilla frutescens</i>
Shogaols	<i>Zingiber officinale</i>
Silibinin	<i>Silybum marianum</i>
Silicates	<i>Equisetum arvense</i> , <i>E. hyemale</i>
Silicic acid	<i>Equisetum hyemale</i> , <i>E. arvense</i> , <i>Polygonum aviculare</i> , <i>P. viviparum</i> , <i>P. multifolrum</i> , <i>Trifolium pratense</i>
Silymarin	<i>Silybum marianum</i>
Silymarin polyacetylenes	<i>Carduus marianus</i>
Sitosterol	<i>Centella asiatica</i> , <i>Epilobium parviflorum</i> , <i>Solanum nigrum</i> , <i>Tribulus terrestris</i>
Solamargine	<i>Solanum nigrum</i>
Solanine	<i>Solanum nigrum</i>
Solanocarpine	<i>Solanum xanthocarpum</i>
Solasodine	<i>Solanum nigrum</i> , <i>S. dulcamara</i>
Soldulcamaridine	<i>Solanum dulcamara</i>
Sorbitol	<i>Lonicera caerulea</i> , <i>L. caprifolium</i>
Sparteine	<i>Chelidonium majus</i> , <i>Cytisus scoparius</i>

Sphondin	<i>Heracleum maximum, H. lanatum, H. sphondylium</i>
Spinasterol	<i>Silene ocaulis, S. virginica</i>
Stachydrine	<i>Medicago sativa, Stachys officinalis</i>
Starch	<i>Smilax china, S. aristolochiifolia</i>
Stearic acid	<i>Apium graveolens, Areca catechu, Cucumis sativus, Linum usitatissimum, Myristica fragrans, Solanum nigrum, Thevetia peruviana, Vitis vinifera</i>
Sterins	<i>Codonopsis pilosula, Codonopsis tangshen</i>
Steroidal	<i>Veratrum viride</i>
Steroidal alkaloids	<i>Buxus sempervirens, Solanum xanthocarpum, S. dulcamara</i>
Steroidal saponins	<i>Aletris farinosa, Caulophyllum thalictroides, Dioscorea opposita, D. batatas, Smilax china, S. aristolochiifolia, Solanum dulcamara</i>
Steroids	<i>Humulus lupulus</i>
Sterols	<i>Achillea millefolium, Astragalus membranaceus, A. americana, Bidens tripartita, B. connata, Cimicifuga racemosa, Equisetum hyemale, Euonymus atropurpureus, Eupatorium perfoliatum, Lawsonia inermis, Ledum palustre, Linaria vulgaris, Menyanthes trifoliata, Phellodendron amurense, P. chinensis, Physalis alkekengi, Polygala senega, Pueraria thunbergiana, P. lobata, Sambucus nigra, S. canadensis, Saponaria officinalis, Tussilago farfara</i>
Sticinic acid	<i>Lobelia chinensis</i>
Stictic acid	<i>Lobelia chinensis</i>
Stigmast-4-3-one	<i>Urtica urens</i>
Stigmasterol	<i>Matteuccia struthiopteris, Melochia tomentosa, Rehmannia glutinosa, Scutellaria baicalensis, S. macrantha, S. lateriflora, Urtica urens</i>
Strychnine	<i>Strychnos nux-vomica</i>
Suberins	<i>Quercus robur</i>
Sugars	<i>Linaria vulgaris, Papaver somniferum, Phaseolus vulgaris, Ziziphus jujuba</i>
Sumaresinolic acid esters	<i>Styrax benzoin</i>
Swertiamarin	<i>Centaurium erythraea</i>
Syringaldehyde	<i>Phragmites australis</i>
Syringic acid	<i>Eucalyptus citriodora, E. globulus</i>
Tagetone	<i>Tagetes patula</i>

Component	Source
Tangshenoside	<i>Codonopsis pilosula</i> , <i>C. tangshen</i>
Tannic acid	<i>Cornus florida</i> , <i>Cyripedium calceolus</i> , <i>C. pariflorum</i> , <i>Glycyrrhiza glabra</i> , <i>Rumex acetosella</i> , <i>R. aquaticus</i> , <i>R. obtusifolia</i>
Tannin	<i>Adiantum capillus-junonis</i> , <i>Aesculus hippocastanum</i> , <i>Aleurites molucanum</i> , <i>Anemone pulsatilla</i> , <i>Artemisia vulgaris</i> , <i>Dodonaea viscosa</i> , <i>Hydrangea arborescens</i> , <i>Jatropha gossypifolia</i> , <i>Juglans regia</i> , <i>Lythrum salicaria</i> , <i>Rheum officinale</i> , <i>R. palmatum</i> , <i>R. tanguticum</i> , <i>Salvia officinalis</i> , <i>Trillium erectum</i>
Tannins	<i>Abutilon indicum</i> , <i>Acacia catechu</i> , <i>Acalypha indica</i> , <i>Achillea millefolium</i> , <i>Agrimonia eupatoria</i> , <i>Ailanthus altissima</i> , <i>A. glandulosa</i> , <i>Alnus crispus</i> , <i>A. glutinosa</i> , <i>Amaranthus hypochondriacus</i> , <i>Anagallis arvensis</i> , <i>Anemone hepatica</i> , <i>A. patens</i> , <i>A. pulsatilla</i> , <i>Aralia catechu</i> , <i>A. nudicaulis</i> , <i>A. racemosa</i> , <i>Arctium lappa</i> , <i>Areca catechu</i> , <i>Aristolochia clematitis</i> , <i>A. serpentaria</i> , <i>Artemisia absinthium</i> , <i>A. dracunculus</i> , <i>Berberis vulgaris</i> , <i>Betula lenta</i> , <i>B. pendula</i> , <i>B. verrucosa</i> , <i>Bidens tripartita</i> , <i>B. connata</i> , <i>Caesalpinia ascendens</i> , <i>C. bonducella</i> , <i>C. sylvatica</i> , <i>Castanea sativa</i> , <i>Catharanthus roseus</i> , <i>Celtis australis</i> , <i>Chamaenerion angustifolium</i> , <i>Chimaphila umbellata</i> , <i>Chrysanthemum parthenium</i> , <i>Cimicifuga foetida</i> , <i>Cinnamomum zegganicum</i> , <i>Conyza canadensis</i> , <i>Cornus officinalis</i> , <i>C. canadensis</i> , <i>C. florida</i> , <i>Corylus avellana</i> , <i>C. cornuta</i> , <i>C. rostrata</i> , <i>C. americana</i> , <i>C. laevigata</i> , <i>C. monongyna</i> , <i>C. oxycantha</i> , <i>Cydonia oblonga</i> , <i>C. oblonga</i> , <i>Daphne genkwa</i> , <i>D. mezereum</i> , <i>Datura innoxia</i> , <i>D. metel</i> , <i>D. stramonium</i> , <i>Ephedra sinica</i> , <i>Epilobium angustifolium</i> , <i>Erigeron canadensis</i> , <i>Eugenia caryophyllata</i> , <i>Euonymus atropurpureus</i> , <i>Fragaria vesca</i> , <i>Fraxinus ornus</i> , <i>Galium aparine</i> , <i>Gelsemium sempervirens</i> , <i>Geranium macrorrhizum</i> , <i>G. robertianum</i> , <i>G. maculatum</i> , <i>Geum aleppicum</i> , <i>G. urbanum</i> , <i>Glechoma hederacea</i> , <i>Gnaphalium uliginosum</i> , <i>Hedera helix</i> , <i>Hippophae rhamnoides</i> , <i>Humulus lupulus</i> , <i>Hyssopus officinalis</i> , <i>Lawsonia inermis</i> , <i>Ledum palustre</i> , <i>Linaria vulgaris</i> , <i>Lobelia chinensis</i> , <i>Lonicera japonica</i> , <i>L. caerulea</i> , <i>L. caprifolium</i> , <i>Lysimachia vulgaris</i> , <i>Malva sylvestris</i> , <i>M. rotundifolia</i> , <i>Matricaria chamomilla</i> , <i>Melia azedarach</i> , <i>Melilotus alba</i> , <i>M. arvensis</i> , <i>M. officinalis</i> , <i>Menyanthes trifoliata</i> , <i>Murraya koenigii</i> , <i>Myrica cerifera</i> , <i>M. pennsylvanica</i> , <i>Oenothera biennis</i> , <i>Paeonia officinalis</i> , <i>Parietaria judaica</i> , <i>Pinus albicaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i> , <i>Pistacia lentiscus</i> , <i>Plantago major</i> , <i>Polygonum aviculare</i> , <i>P. viviparum</i> , <i>P. multiflorum</i> , <i>Populus tremuloides</i> , <i>Potentilla erecoa</i> , <i>P. tormentilla</i> , <i>Poterium officinale</i> , <i>Primula vulgaris</i> , <i>P. veris</i> , <i>Prunella vulgaris</i> , <i>Prunus americana</i> , <i>Pulsatilla vulgaris</i> , <i>Quercus robur</i> , <i>Ranunculus ficaria</i> , <i>Ribes nigrum</i> , <i>Rubus coreanus</i> , <i>R. fruticosus</i> , <i>R. idaeus</i> , <i>Rumex crispus</i> , <i>Salix alba</i> , <i>S. discolor</i> , <i>Sambucus racemosa</i> , <i>Sanguisorba officinalis</i> , <i>Scutellaria baicalensis</i> , <i>S. macrantha</i> ,

	<i>S. lateriflora</i> , <i>Solanum dulcamara</i> , <i>Solidago canadensis</i> , <i>S. virgaurea</i> , <i>Sorbus aucuparia</i> , <i>Spiraea ulmaria</i> , <i>Stachys officinalis</i> , <i>Syzygium aromaticum</i> , <i>Tagetes minuta</i> , <i>T. lucida</i> , <i>Taraxacum officinale</i> , <i>Terminalia chebula</i> , <i>Thuja occidentalis</i> , <i>Thymus vulgaris</i> , <i>T. capitatus</i> , <i>T. citriodorus</i> , <i>T. praecox</i> , <i>T. pulegioides</i> , <i>T. serpyllum</i> , <i>Tilia cordata</i> , <i>T. europaea</i> , <i>Tribulus terrestris</i> , <i>Trifolium pratense</i> , <i>Tussilago farfara</i> , <i>Ulmus rubra</i> , <i>U. procera</i> , <i>Vaccinium myrtilloides</i> , <i>V. myrtillus</i> , <i>V. oreophilum</i> , <i>Verbena officinalis</i> , <i>Veronica officinalis</i> , <i>Viburnum opulus</i> , <i>V. prunifolium</i> , <i>Viola tricolor</i> , <i>Vitis vinifera</i> , <i>Zanthoxylum americanum</i> , <i>Zea mays</i>
Taraxacin	<i>Taraxacum officinale</i>
Taraxasterol	<i>Inula britannica</i> , <i>I. japonica</i> , <i>Taraxacum officinale</i>
Taraxerol	<i>Alnus crispus</i> , <i>A. glutinosa</i> , <i>Taraxacum officinale</i> , <i>Tilia cordata</i> , <i>T. europaea</i>
Tartalic acid	<i>Cornus florida</i> , <i>Crataegus laevigata</i> , <i>C. monongyna</i> , <i>C. oxyacantha</i> , <i>Hibiscus rosa-sinensis</i> , <i>H. sabdariffa</i> , <i>Tussilago farfara</i> , <i>Vitis vinifera</i>
Taxol	<i>Taxus x media</i> , <i>T. brevifolia</i>
Tectoridin	<i>Belamcanda chinensis</i>
Tectorigenin	<i>Belamcanda chinensis</i>
Tephrosin	<i>Tephrosia virginiana</i>
Terpenes	<i>Conyza canadensis</i> , <i>Erigeron canadensis</i> , <i>Hyssopus officinalis</i> , <i>Saussurea lappa</i>
Terpenoids	<i>Adiantum capillus-junonis</i> , <i>Aster tataricus</i> , <i>Euphorbia hirta</i> , <i>Ligustrum lucidum</i> , <i>L. scoticum</i> , <i>L. vulgare</i> , <i>Melaleuca leucadendra</i> , <i>Mentha arvensis</i> , <i>M. haplocalyx</i> , <i>M. pulegium</i> , <i>Populus alba</i>
Terpinene	<i>Coriandrum sativum</i> , <i>Elettaria cardamomum</i> , <i>Juniperus communis</i> , <i>J. sabina</i> , <i>J. horizontalis</i> , <i>Mentha spicata</i> , <i>M. x piperita</i>
Terpineol	<i>Asarum canadense</i> , <i>Cinnamomum camphora</i> , <i>Conyza canadensis</i> , <i>Erigeron canadensis</i>
Terrestriamide	<i>Tribulus terrestris</i>
Tetrahydro-cannabinols	<i>Cannabis sativa</i>
Tetrahydropalmatine	<i>Corydalis yanhusuo</i> , <i>C. solida</i>
Tetrandrine	<i>Menispermum canadense</i>
Thalicarpine	<i>Thalictrum dasycarpum</i> , <i>T. occidentale</i>
Thalidasine	<i>Thalictrum dasycarpum</i> , <i>T. occidentale</i>
Thalisopavine	<i>Thalictrum dasycarpum</i> , <i>T. occidentale</i>
Thamnolic	<i>Lobelia pulmonaria</i>

Component	Source
Thebaine	<i>Papaver rhoeas</i> , <i>P. bracteatum</i>
Theophylline	<i>Camellia sinensis</i>
Thiamine	<i>Aleurites moluccana</i> , <i>Artemisia vulgaris</i> , <i>Camellia sinensis</i> , <i>Cannabis sativa</i> , <i>Daucus carota</i> , <i>Hibiscus rosa-sinensis</i> , <i>H. sabdariffa</i> , <i>Lycopersicon esculentum</i> , <i>Prunus mume</i> , <i>Zea mays</i>
Thiophenes	<i>Tagetes patula</i>
Thujone	<i>Artemisia vulgaris</i> , <i>Chrysanthemum vulgare</i> , <i>Salvia coccinea</i> , <i>S. officinalis</i> , <i>Thuja occidentalis</i>
Thujyl alcohol	<i>Artemisia absinthium</i>
Thymol	<i>Thymus vulgaris</i> , <i>T. capitatus</i> , <i>T. citriodorus</i> , <i>T. praecox</i> , <i>T. pulegioides</i> , <i>T. serpyllum</i>
Tiger nut oil	<i>Cyperus rotundus</i>
Tigonenin	<i>Solanum nigrum</i>
Tiliadine	<i>Tilia cordata</i> , <i>T. europaea</i>
Tinnins	<i>Angelica archangelica</i> , <i>Fraxinus americana</i> , <i>F. excelsior</i> , <i>F. ornus</i> , <i>Juniperus rigida</i> , <i>Nymphaea alba</i> , <i>Senecio vulgaris</i> , <i>S. aureus</i>
Tocopherol	<i>Glycine max</i> , <i>Rubus chamaemorus</i>
Toxicodendrol	<i>Rhus radicans</i> , <i>R. glabra</i> , <i>R. toxicodendron</i>
Trans-aconitic acid	<i>Actaea rubra</i> , <i>A. alba</i>
Trans-5, cis-9-octadecadienoic acid	<i>Thalictrum dasycarpum</i> , <i>T. occidentale</i>
Trans-5-hexadecenoic acid	<i>Thalictrum dasycarpum</i> , <i>T. occidentale</i>
Triacetoneamine	<i>Acalypha indica</i>
Triacylglycerols	<i>Lythrum salicaria</i>
Triandrin	<i>Salix alba</i> , <i>S. discolor</i>
Tribulusamide B	<i>Tribulus terrestris</i>
Tribulusamide A	<i>Tribulus terrestris</i>
Trichosanic acid	<i>Trichosanthes kirilowii</i>
Tricin	<i>Phragmites australis</i>
Trigonelline	<i>Cannabis sativa</i> , <i>Trigonella foenum-graecum</i>
Trillin	<i>Trillium erectum</i>
Triterpene	<i>Chimaphila umbellata</i>
Triterpene glycosides	<i>Cimicifuga racemosa</i> , <i>C. foetida</i>

Triterpene saponins	<i>Glycyrrhiza uralensis</i>
Triterpene acid	<i>Liquidambar orientalis</i> , <i>L. styraciflua</i>
Triterpenenes	<i>Lycopodium annotinum</i>
Triterpenes	<i>Achillea millefolium</i> , <i>Anethum graveoleus</i> , <i>Aspidium filix-mis</i> , <i>Aster tataricus</i> , <i>Calendula officinalis</i> , <i>Dryopteris filix-mas</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>Lycopodium clavatum</i> , <i>L. obscurum</i> , <i>Myrica cerifera</i> , <i>M. penxylvanica</i> , <i>Peucedanum graveolens</i> , <i>Sambucus nigra</i> , <i>S. canadensis</i>
Triterpenoid bitters	<i>Melia azedarach</i>
Triterpenoid saponins	<i>Achyranthes bidentata</i> , <i>Anemone hepatica</i> , <i>A. patens</i> , <i>A. pulsatilla</i> , <i>Arisaema consanguineum</i> , <i>Bupleurum falcatum</i> , <i>Codonopsis pilosula</i> , <i>C. tangshen</i> , <i>Eleutherococcus senticosus</i> , <i>Phytolacca acinosa</i> , <i>Polygala vulgaris</i> , <i>P. senega</i> , <i>Primula vulgaris</i> , <i>P. veris</i> , <i>Pulsatilla vulgaris</i> , <i>Stellaria media</i> , <i>Wisteria floribunda</i> , <i>W. brachybotrys</i>
Triterpenoids	<i>Centella asiatica</i> , <i>Crataegus laevigata</i> , <i>C. monogyna</i> , <i>C. oxyacantha</i> , <i>Ilex aquifolium</i> , <i>I. paraguensis</i> , <i>Iris versicolor</i> , <i>I. pseudacorus</i> , <i>Menyanthes trifoliata</i> , <i>Punica granatum</i> , <i>Wisteria floribunda</i> , <i>W. brachybotrys</i>
Tropane alkaloids	<i>Hyoscyamus niger</i>
Turmerone	<i>Curcuma longa</i>
Tyramine	<i>Capsella bursa-pastoris</i> , <i>Thlaspi arvense</i>
Tyrosine	<i>Phaseolus vulgaris</i>
Umbelliferone	<i>Hieracium pilosella</i> , <i>Matricaria chamomilla</i>
Uric acid	<i>Aesculus hippocastanum</i>
Ursolic acid	<i>Jasaminum grandiflorum</i> , <i>J. officinale</i> , <i>Prunella vulgaris</i> , <i>Pyrola rotundifolia</i>
Urushiol	<i>Rhus radicans</i> , <i>R. glabra</i> , <i>R. toxicodendron</i>
Valepotriates	<i>Valeriana officinalis</i>
Valerianic acid	<i>Ananas comosus</i>
Valeric acid	<i>Angelica archangelica</i>
Valtrate	<i>Valeriana officinalis</i>
Vanillic acid	<i>Ananas comosus</i> , <i>Eucalyptus citriodora</i> , <i>E. globulus</i> , <i>Matteuccia struthiopteris</i> , <i>Phragmites australis</i> , <i>Spiraea ulmaria</i> , <i>Styrax benzoin</i> , <i>Tilia cordata</i> , <i>T. europaea</i>
Vellarin	<i>Centella asiatica</i>
Verbenalin	<i>Cornus officinalis</i> , <i>C. florida</i> , <i>Verbena officinalis</i>
Vervenin	<i>Verbena officinalis</i>

Component	Source
Viburnito	<i>Menispermum canadense</i>
Vinblastine	<i>Catharanthus roseus</i>
Violin	<i>Viola tricolor</i>
Viscin	<i>Viscum album</i>
Viscotoxin	<i>Viscum album</i>
Vitamin A	<i>Artemisia annua</i> , <i>Citrus aurantium</i> , <i>Physalis franchetti</i> , <i>Morus alba</i> , <i>P. pubescence</i> , <i>Pinus albicaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i> , <i>Polygonatum odoratum</i> , <i>P. multiflorum</i> , <i>P. biflorum</i> , <i>Raphanus sativus</i> , <i>Sambucus nigra</i> , <i>S. canadensis</i> , <i>Solanum aculeatissimum</i> , <i>S. melongena</i> , <i>S. tuberosum</i> , <i>Vaccinium vitis-idaea</i> , <i>V. macrocarpon</i>
Vitamin B	<i>Actinidia polygama</i> , <i>Citrus aurantium</i> , <i>Prunella vulgaris</i> , <i>Raphanus sativus</i> , <i>Sesamum indicum</i>
Vitamin B complex	<i>Avena sativa</i> , <i>Daucus carota</i> , <i>Hippophae rhamnoides</i> , <i>Rosa canina</i> , <i>R. damascena</i> , <i>R. gallica</i>
Vitamin B ₁	<i>Lycium barbarum</i> , <i>Morus alba</i> , <i>Picrasma excelsa</i> , <i>Ribes nigrum</i>
Vitamin B ₁₂	<i>Lycium barbarum</i>
Vitamin B ₂	<i>Morus alba</i> , <i>Solanum aculeatissimum</i> , <i>S. melongena</i> , <i>S. tuberosum</i>
Vitamin C	<i>Actinidia polygama</i> , <i>Cardamine pratensis</i> , <i>Citrus aurantium</i> , <i>Coriandrum sativum</i> , <i>Daucus carota</i> , <i>Fragaria vesca</i> , <i>Hippophae rhamnoides</i> , <i>Lepidium virginicum</i> , <i>Lycium barbarum</i> , <i>Morinda didyma</i> , <i>M. fistulosa</i> , <i>M. punctata</i> , <i>Morus alba</i> , <i>Physalis alkekengi</i> , <i>P. franchetti</i> , <i>P. pubescence</i> , <i>Pinus albicaulis</i> , <i>P. contorta</i> , <i>P. mugo</i> , <i>P. palustris</i> , <i>P. strobus</i> , <i>Prunella vulgaris</i> , <i>Raphanus sativus</i> , <i>Rhamnus catharticus</i> , <i>R. frangula</i> , <i>R. purshianus</i> , <i>Ribes nigrum</i> , <i>Rosa canina</i> , <i>R. damascena</i> , <i>R. gallica</i> , <i>Rubus coreanus</i> , <i>R. idaeus</i> , <i>R. chamaemorus</i> , <i>R. fruticosus</i> , <i>Sambucus nigra</i> , <i>S. canadensis</i> , <i>Schisandra chinensis</i> , <i>Sesamum indicum</i> , <i>Solanum aculeatissimum</i> , <i>S. melongena</i> , <i>S. tuberosum</i> , <i>Sorbus aucuparia</i> , <i>Stellaria media</i> , <i>Taraxacum officinale</i> , <i>Taraxacum officinale</i> , <i>Vaccinium vitis-idaea</i> , <i>V. macrocarpon</i> , <i>Veronica officinalis</i>
Vitamin E	<i>Carthamus tinctorius</i> , <i>Hippophae rhamnoides</i> , <i>Ribes nigrum</i> , <i>Schisandra chinensis</i>
Vitamin K	<i>Prunella vulgaris</i> , <i>Solanum tuberosum</i>
Vitamin P	<i>Forsythia suspensa</i> , <i>Ribes nigrum</i>
Vitamins	<i>Rorippa nasturtium-aquaticum</i> , <i>Cucurbita maxima</i> , <i>Ficus carica</i> , <i>Glycine max</i> , <i>Medicago sativa</i> , <i>Rosa rugosa</i> , <i>R. acicularis</i> , <i>Ziziphus jujuba</i>
Vitexin	<i>Lythrum salicaria</i>
Viticine	<i>Vitex labrusca</i> , <i>V. agnus-castus</i>

Volatile oil	<i>Acalypha indica</i> , <i>Aletris farinosa</i> , <i>Alpinia galanga</i> , <i>Anemone hepatica</i> , <i>A. patens</i> , <i>A. pulsatilla</i> , <i>Anthriscus cerefolium</i> , <i>Apocynum androsaemifolium</i> , <i>Aralia catechu</i> , <i>A. nudicaulis</i> , <i>A. racemosa</i> , <i>Aristolochia clematitis</i> , <i>A. serpentaria</i> , <i>Artemisia tridentata</i> , <i>Aspidium filix-mis</i> , <i>Bidens tripartita</i> , <i>B. connata</i> , <i>Carduus benedita</i> , <i>Cryptotaenia canadensis</i> , <i>Curcuma longa</i> , <i>Cymbopogon winterianus</i> , <i>C. citratus</i> , <i>C. martinii</i> , <i>Desmodium gangeticum</i> , <i>Drosera rotundifolia</i> , <i>Dryopteris filix-mas</i> , <i>Ephedra sinica</i> , <i>Eriobotrya japonica</i> , <i>Eupatorium perfoliatum</i> , <i>Fraxinus ornus</i> , <i>F. americana</i> , <i>F. excelsior</i> , <i>Gardenia angusta</i> , <i>Geum urbanum</i> , <i>Gnaphalium uliginosum</i> , <i>Inula britannica</i> , <i>I. japonica</i> , <i>Justicia adhatoda</i> , <i>Lonicera japonica</i> , <i>Lophanthus rugosus</i> , <i>Magnolia liliflora</i> , <i>M. officinalis</i> , <i>Marsdenia condurango</i> , <i>Melilotus alba</i> , <i>M. arvensis</i> , <i>Murraya koenigii</i> , <i>Nicotiana tabacum</i> , <i>Piper longum</i> , <i>P. cubeba</i> , <i>P. nigrum</i> , <i>Polygala vulgaris</i> , <i>Primula vulgaris</i> , <i>Primula veris</i> , <i>Pulsatilla vulgaris</i> , <i>Ranunculus ficaria</i> , <i>Rumex crispus</i> , <i>Saponaria officinalis</i> , <i>Senecio vulgaris</i> , <i>Syzygium aromaticum</i> , <i>Trillium erectum</i> , <i>Verbena officinalis</i> , <i>Zingiber officinale</i>
Wax	<i>Papaver somniferum</i> , <i>Thuja occidentalis</i>
Withanolides	<i>Datura innoxia</i> , <i>D. metel</i> , <i>D. stramonium</i>
Wogonin	<i>Scutellaria baicalensis</i> , <i>S. macrantha</i> , <i>S. lateriflora</i>
Worenine	<i>Coptis chinensis</i>
Xanthones	<i>Anethum graveoleus</i> , <i>Centaurium erythraea</i> , <i>Peucedanum graveolens</i> , <i>Swertia chirata</i>
Xanthophylls	<i>Bidens tripartita</i> , <i>B. connata</i>
Xylan	<i>Luffa aegyptiaca</i> , <i>L. cylindrica</i>
Xylose	<i>Cannabis sativa</i> , <i>Luffa aegyptiaca</i> , <i>L. cylindrica</i>
Yohimbine	<i>Rauvolfia serpentina</i>
Zingiberen	<i>Curcuma longa</i>

Index

- 1-acetyl-4-isopropylidenecyclopentene, 366
 1,8-cineol, 366
 1,8-dihydroxy-anthracene derivatives, 488
 2'-deoxyadenosine, 366
 2-o-caffeoylarbutin, 366
 2-methyl-1,2,3,4-tetrahydro-beta-carboline, 366
 2-3,4-dihydroxyphenyl-ethanol, 488
 2,4,4',t-tetrahydroxybenzophenone, 366
 2,4-dichloro-6-aminopyridine, 366
 2,5-dimethoxypara-quinone, 488
 2-(6'-cinnamoyl) glucosido-, 488
 2,6-dimethoxy-p-benzo-quinone, 366
 2,6-nonadienol, 366
 2-β-glucuronosyl, 488
 2-hydroxyphenylacetic acid, 366
 2-vinyl-4H-1,3-dithin, 488
 3'-angeloyloxy-4'-isovaleroyloxy, 366
 3-chloroplumbagin, 366
 3-hydroxy-30-horoleana-12,18-dien-29-oate, 366
 3-indolylmethylgluco-sinolate, 366
 3-methoxypyridine, 366
 3-n-pentadecylcatechol, 488
 3-O-demethylhernandifoline, 367
 3-O-methylquercetin, 367
 3-oxykojie acid, 367
 3-p-coumarylglycoside-5-glucoside, 367
 3-O-glucoside, 488
 3,4-dihydroxyacetophenone, 367
 3,4-dihydroxycinnamic acid, 367
 3,4-dihydroxyphenethyl alcohol, 367
 3-(4-hydroxyphenyl)-2 (E)-propenoate, 366
 3'',4''-O-diacetylafzelin, 366
 3-O-β-D-glucuronide, 488
 3-O-β-glucosylplatycodigenin, 367
 4-dementhyl-hasubanonine, 367
 4-hydroxybenzaldehyde, 488
 4-hydroxycinnamic acid, 488
 4-methoxysalicylaldehyde, 367
 4-quinazolone, 367
 4'-O-methylpyridoxine, 488
 4,5-dimethoxycanthin-6-one, 367
 (+)-5,17-dehydromatrine N-oxide, 366
 5-alpha-ergost-8(-14)-en-3B-ol, 367
 5-alpha-ergost-en-3 beta-ol, 367
 5-β-cholanic acid, 367
 5-fluorouracil, 367
 5-guaizulene, 367
 5-hydroxytryptamine, 367
 5-methyl kaempferol, 367
 5-methyl myricetin, 367
 5-stigmautena-3beta,7d-diol, 367
 6-ethoxy-chelerythrin, 367
 6-isoinosine, 367
 6-methylcodine, 367
 6,6'-dimethoxylgossypol, 368
 6,8-di-C-galactopyranosylapigenin, 368
 6,9,12-octadecatrienoic acid, 367
 6-C-galactopyranosyl-isoscuteallarein, 367
 6-O-acetyl-arbutin, 367
 6-O-rhamnosyl cophoroside, 368
 6-O-β-sophoruside, 367
 7-caFFEyl-glucosides, 368
 7-β-glucopyranoside, 368
 7-hydroxylathyrol, 368
 7-methoxy-2,2-dimethylchromene, 368
 7-methoxy-baicalin, 368
 7-methoxynorwogonin, 368
 7-O-methyl-morroniside, 368
 8-(O-methyl-p-coumaroyl)-harpagide, 368
 10-deacetylbaicalin, 366
 10-hydroxycamptothecin, 366
 12-benzoyldaphnetoxin, 366
 (-)-12-cytisineacetic acid, 366
 22-dihydrospinaesterol, 488
 22E-dehydroclerosterol, 366
 24alpha-epimer stigmasterol, 366
 24alpha-ethyl-5alpha-cholest, 366
 24beta-epimer poriferasterol, 366
 24beta-methylcholesta, 366
 25-D-spirosta-3,5-diene, 366

A

- A Wei, 326
 Aabrin, 488
 Abamagenin, 368
 Abeotaxanes, 368
 Abrin, 488
 Abrotamine, 488
Abrus precatorius, 4, 164, 353, 367, 398, 423, 458, 471, 478, 488, 491, 505
 Absciscic acid, 368
 Absinthol, 488
Abutilon avicennae, 4, 230, 335, 398, 441, 452, 464, 480
Abutilon indicum, 230, 492, 513
Abutilon theophrasti, 4, 230, 335, 441, 452, 464, 480
 Acacetin-7-glucoside, 368
 Acacetin-7-glucurono-(1,2)-glucuronide, 368
 Acacetin-7-rhamnoglucoside, 368
Acacia catechu, 4, 164, 333, 389, 400, 408, 415–416, 442, 464, 503
Acacia confusa, 4, 357, 374
Acacia nemu, 4, 336, 466
Acacia australis, 355
Acalypha australis, 4, 368, 474
Acalypha farnesiana, 4, 368
Acalypha indica, 4, 164, 338, 368, 488, 499, 506, 526, 529
 Acalyphine, 368, 488
Acanthopanax giraldii, 5, 367, 383, 400, 404, 457, 479
Acanthopanax gracilistylus, 5, 356, 367, 377, 383, 405, 481
Acanthopanax senticosus, 5, 331, 350
Acanthopanax sessiliflorus, 5, 333, 368, 401, 431, 467
Acanthopanax spinosum, 5, 356, 367, 377, 383, 481
Acanthopanax trifolatus, 5, 349, 475
 Acanthosides, 368
 Acetadehyde, 368
 Acetic acid, 368
 Acetone, 368
 Acetopenone glucoside, 488
 Acetovanillone, 368
 Acetycophalotaxine, 368
 Acetyl harpagide, 488
 Acetyl lupeol, 368
 Acetyl oleanolic acid, 368
 Acetylated alkaloids, 488
 Acetylcholine, 368, 488
 Acetylcorynoline, 369
 Acetylenes, 488
 Acetylenic compounds, 488
 Acetyleneugenol, 369
 Acetylinic, 488
 Acetylsalicylic acid, 369
 Acetylshikonin, 369
Achillea alpina, 5, 351, 369, 371, 376, 383, 388, 396, 399, 403, 409–410, 422, 442, 469
Achillea millefolium, 5, 164, 351, 369, 371, 376, 383, 396, 399, 403, 410, 422, 442, 469, 488, 497, 509, 512, 522–523, 527
 Achilleine, 369, 488
 Achillin, 369
Achyranthes asperia, 6, 355, 379, 381, 463, 466, 477
Achyranthes bidentata, 6, 165, 337, 407
Achyranthes japonica, 6, 339, 466
 Acidic polysaccharides, 488
 Acidic resin, 369
 Aconine, 369
 Aconitine, 369, 489
Aconitum austroyunnanense, 6, 369, 427, 473, 481
Aconitum balfourii, 6, 334, 357, 369, 440, 473
Aconitum barbatum, 6, 358, 369, 427, 481
Aconitum carmichaelii, 6, 165, 334, 357, 369, 440, 473, 489, 493, 495, 507, 511, 514
Aconitum chasmanthum, 6, 334, 357, 369, 440, 473
Aconitum chinense, 7, 329, 369, 440, 473
Aconitum deinorrhizum, 6, 334, 357, 369, 373, 440, 459, 473
Aconitum fischeri, 6, 334, 357, 369, 440, 473
Aconitum jaluense, 6, 334, 357, 369, 440, 473
Aconitum koreanum, 6, 334, 357, 369, 440, 473
Aconitum kusnezoffii, 7, 329, 369, 423, 440, 473
Aconitum laciniatum, 7, 329, 369, 423, 440, 473
Aconitum napellus, 6, 165, 334, 357, 369, 440, 473, 489, 493, 495, 507, 511, 514
Aconitum pariculigerum, 7, 329, 369, 440, 473
Aconitum praeparata, 6, 334, 369, 440, 473
Aconitum vilmorinianum, 7, 329, 369, 440, 473
Aconitum volubile, 6, 334, 357, 369, 440, 473
 Acoric acid, 369, 489
Acorus calamus, 7, 165, 329, 369, 381, 489, 510, 512, 515, 521–522
Acorus gramineus, 7, 165, 329, 369, 489, 510, 512, 515, 521–522
Acorus tatarinowii, 7, 329, 369
Acronychia laurifolia, 7, 369, 380
Acronychia pedunculata, 7, 339, 369, 380
 Acrylic acid, 489
Actaea alba, 230, 518, 526
Actaea asiatica, 7, 230, 341, 478

- Actaea rubra*, 230, 518, 526
 Actein, 489
Actinidia arguta, 7, 345, 369, 372, 404, 425, 427, 439, 445, 482
Actinidia chinensis, 7, 345, 369, 372, 404, 425, 427, 439, 482
Actinidia japonica, 7, 345, 369, 372, 404, 425, 427, 439, 482
Actinidia kolomikta, 7, 345, 369, 372, 404, 425, 439, 482
Actinidia polygama, 7, 165, 345, 369, 372, 425, 427, 439, 482, 489, 500, 508, 511, 514, 528
 Actinidine, 369, 489
 Actronycine, 369
 Acutumidine, 369
 Acutumine, 369
 Acutuminine, 369
 Acyclic diterpene glycosides, 369
 Acyl flavonol di-glycoside, 369
Adamia chinensis, 7, 349, 373, 416
Adamia cyanea, 7, 329, 373, 416
Adamia versicolof, 7, 329, 373, 416
 Adenine, 369
Adenophora coronopifolia, 8, 230, 349, 466
Adenophora paniculata, 8, 230, 349, 466
Adenophora pereskiaefolia, 8, 230, 349, 466
Adenophora polymorpha, 8, 230, 349, 466
Adenophora remotiflora, 8, 230, 349, 466
Adenophora stenanthina, 8, 230, 349, 466
Adenophora stricta, 230
Adenophora tetraphylla, 8, 230, 349
Adenophora triphylla, 8, 230, 329, 383, 401, 424, 435
Adenophora verticillata, 8, 230, 343, 383, 401, 424
 Adenosine, 369
 Adiantone, 369
Adiantum boreale, 8, 355, 369, 412–413, 422, 425–426
Adiantum capillus-junonis, 8, 166, 355, 369, 412–413, 422, 425–426, 489, 508, 520, 524–525
Adiantum flabellutaum, 8, 335, 369, 412, 422, 425–426
Adiantum pedataum, 8, 355, 369, 412, 422, 425
Adina ratemosa, 8, 352, 383, 392, 442, 445, 461, 472
Adina rubella, 8, 353, 383–384, 392, 442, 445, 461, 472
 Adipedatol, 369
 Adonilide, 369
Adonis brevistyla, 8, 230, 334, 369, 399, 427, 453
Adonis chrysocyathus, 8, 230, 334, 369, 395, 399, 427, 453
Adonis vernalis, 8, 166, 231, 334, 369, 427, 496
 Adonitoxin, 489
 Adynerin, 369
 Aegicerin, 369
 Aescilom, 370
 Aescin, 489
 Aescine, 370
 Aesculetin, 370
 Aesculine, 370
Aesculus chinensis, 9, 354, 375, 449, 459
Aesculus hippocastanum, 9, 166, 354, 375, 449, 459, 489, 497–498, 509, 519, 521, 524, 527
Aesculus indica, 9, 370–371, 412
 Aflatoxin B, 370
 Aflatoxins, 370
 Afzelechin, 489
 Afzelin, 370
 Agarol, 370
 Agaropectin, 370, 489
 Agarose, 370, 489
 Agarospirol, 370
Agastache anethrodora, 231, 491
Agastache foeniculum, 231, 491
Agastache rugosa, 9, 231, 338, 375–376, 389, 399–400, 407, 412, 421, 448, 450
 Agathin, 370
 Agerato-chromene, 370
Ageratum conyzoides, 9, 351, 368, 370
Ageratum houstonianum, 9, 368, 370
 Agglutinins, 370
 Aglycone, 370, 489
 Agnuside, 370, 489
 Agoniadin, 370
 Agrimols, 370
Agrimonia eupatoria, 9, 166, 343, 357, 370, 377, 389, 396, 436, 474, 498, 503, 511, 517
Agrimonia pilosa, 9, 343, 357, 370, 377, 396, 436, 474
Agrimonia viscidula, 9, 343, 357, 370, 377, 396, 436, 474
 Agrimonine, 370
 Agrimonolide, 370
 Agrimophol, 370
 Ai Di Cha, 326
 Ai Lei, 326
 Ai Na Xian, 326
 Ai Ye, 326
 Ai Yu Zi, 326
 Ailanthone, 370, 489
Ailanthus altissima, 10, 167, 231, 330, 370, 374, 380, 383, 442, 473, 481, 489, 502, 519
Ailanthus glandulosa, 231, 489, 503, 519

- Ajmaline, 489
 Ajoene, 489
Ajuga bracteosa, 10, 231, 336, 368, 370, 383, 390–391, 406, 413, 432, 442, 452, 458, 477, 484
Ajuga decumbens, 10, 231, 370, 406, 413
Ajuga pygmaea, 10, 231, 340, 370, 406, 413
Ajuga reptans, 231, 506
 Ajugasterone, 370
Akebia quinata, 10, 231, 345
Akebia trifoliata, 231
 Alangicine, 370
 Alangimarckine, 370
Alangium chinense, 10, 326, 405
Alangium lamarckii, 10, 370, 376, 390, 402–403, 405, 460, 479
 Alanine, 370
 Alatamine, 370
 Albaspidin, 370
 Albiflorin, 371, 489
 Albigenic acid, 371
Albizia julibrissin, 10, 337
Albizia lebeck, 10
 Albumin, 371, 489
 Albuminoides, 489
 Alcohol derivatives, 371
 Alcohols, 371
 Aldehyde, 371, 489
 Aldehyde antioxiene, 489
Aletris farniosa, 232, 500, 529
Aletris formosuna, 11, 232, 333, 383, 405, 472
Aletris spicata, 232, 333, 383, 405, 472
Aleurites fordii, 11, 360, 372–373, 381, 383, 387, 444, 466
Aleurites moulceanu, 11, 167, 351, 388, 477, 506, 510, 514–515, 518, 526
 Algin, 371
 Alginic acid, 371
 Alizarin, 371
Alisma cordifolia, 11, 361, 371, 408
Alisma orientalis, 11, 361, 371, 408, 479
Alisma plantago, 11, 361, 371, 408
Alisma plantago-aquatica, 11, 361, 371, 408
 Alisol A, 371
 Alisol B, 371
 Alisol monoacetate, 371
 Alizarin, 371
 Alizarin-l-methyl ether, 371
 Alkaloid lamine, 371, 489
 Alkaloids, 371, 489
 Alkamin-B, 371
 Alkanes, 489
 Alkannan, 371
 Alkenyl, 490
 Alkenyl glycoside, 490
 Alkyl methyl quinolone alkaloids, 371
Allamanda cathartica, 11, 361, 372
 Allamandin, 372
 Allantoin, 372, 490
 Allelopathic essential oils, 372
 Allicin, 372
 Alliin, 490
 Allistatin, 372
Allium chinense, 11, 331, 372, 418, 445, 459, 472
Allium fistulosum, 11, 167, 331, 488–489, 500, 507, 510, 521
Allium macrostemon, 11, 333, 415
Allium odorum, 11, 331, 372, 418, 445, 459, 472
Allium sativum, 11, 167, 331, 372, 418, 445, 459, 472, 488–490, 500, 507, 510, 521
Allium tartariacum, 11, 333
Allium tuberosum, 11, 167, 331, 372, 418, 445, 459, 472, 488–490, 500, 507, 510, 521
Allium uliginosum, 11, 331, 372, 445, 459
Allium victoralis, 12, 335, 372, 431, 440–441
 Allocryptopine, 372, 490
 Allomatatabiol, 372, 490
 Allosecurinine, 372
 Allyl isothiocyanate, 372
 Allyl sinapic oil, 372
 Allyl-l-propenyl disulfide, 372
 Alnulin, 490
Alnus crispus, 232, 490, 494, 502, 516, 518–519, 525
Alnus glutinosa, 232, 490, 494, 502, 516, 518, 525
Alnus japonica, 12, 232, 329, 372, 384, 418, 420, 435, 475
Aloe barbadensis, 12, 167, 343, 372, 380, 488, 490–491, 493, 497, 501
Aloe vera, 12, 167, 343, 372, 380, 488, 490–491, 493, 497, 501
 Aloe-emodin, 372, 490
 Aloeresins, 490
 Aloesin glycone, 490
 Aloesone, 490
 Aloin isobarbaloin, 490
 Aloins, 372
 Alpha-acid, 490
 Alpha-agarofuran, 372
 Alpha-allocryptopine, 372
 Alpha-amyrenol, 372
 Alpha-amyrin, 372
 Alpha-amyrin palmitate, 372
 Alpha-antiarin, 372
 Alpha-antioside, 372
 Alpha-bergamotene, 372
 Alpha-bisabolol, 372, 490
 Alpha-camphorene, 372
 Alpha-carotene-5,6-epoxide, 372

- Alpha-caryophylline, 372
 Alpha-crocetin, 372
 Alpha-cyperene, 372
 Alpha-cyperol, 372
 Alpha-cyperone, 373
 Alpha-dichroine, 373
 Alpha-elaeo stearic, 373
 Alpha-euphol, 373
 Alpha-euphorbol, 373
 Alpha-fenchene, 373
 Alpha-globuline, 373
 Alpha-humulene, 373
 Alpha-hydrojuglone-4-beta-D-glucoside, 373
 Alpha-ionone, 373
 Alpha-kainic acid, 373
 Alpha-ketoglutaric acid, 373
 Alpha-leucodelphinidin, 373
 Alpha-lupanine, 373
 Alpha-masticoresin, 490
 Alpha-methyl ether, 373
 Alpha-obscurine, 373
 Alpha-onocerin, 373
 Alpha-paristypnin, 373
 Alpha-phellandrene, 373
 Alpha-phenylethylisothiocyanate, 373
 Alpha-phenylpropyl cinnamyl cinnamate, 373
 Alpha-phytosterol, 373, 490
 Alpha-pinene, 373, 490
 Alpha-santalol, 373
 Alpha-santenone, 373
 Alpha-spinasterol, 373, 490
 Alpha-taralin, 373
 Alpha-taraxerol, 373
 Alpha-terpinene, 374
 Alpha-terpineol, 374, 490
 Alpha-terpinyl acetate, 374
 Alpha-terthienyl, 374
 Alpha-terthienylmethanol, 490
 Alpha-tertiary methanol, 374
 Alpha-thujone, 490
 Alpha-tocopherol, 490
 Alpha-trevilline, 374
 Alpha-typhasterol, 374
Alpinia galanga, 233, 490, 504, 510, 522, 529
Alpinia globosum, 12, 232, 415, 429, 463, 477
Alpinia japonica, 12, 232, 361, 392, 428, 463, 477
Alpinia katsumadai, 12, 232, 332, 393, 415, 429, 463, 477
Alpinia kumatake, 12, 232, 347, 415, 429, 463
Alpinia officinarum, 12, 232, 334, 392, 405, 411, 440, 468
Alpinia oxyphylla, 13, 232, 360, 485
Alpinia speciosa, 13, 232, 350, 485
Alstonia scholaris, 13, 168, 332, 407, 455, 519
Alternanthera philoxeroides, 13, 341, 411, 466
Alternanthera sessilis, 13, 344, 411, 466
Althaea officinalis, 233, 492, 515
Althaea rosea, 13, 233, 330, 374
 Althaeine, 374
 Aluminum, 374
 Aluminum oxide, 374
 Alzarin, 490
 Amaranthin, 374
Amaranthus blitum, 13, 233, 379, 463, 477, 482
Amaranthus caudatus, 13, 233, 356, 383
Amaranthus hypochondriacus, 233
Amaranthus lividus, 13, 233, 343, 379, 463, 477, 482
Amaranthus paniculatus, 13, 333, 383
Amaranthus tricolor, 13, 233, 349, 379, 381, 463, 477
Amaranthus viridis, 13, 233, 343, 379, 463, 477, 482
 Amarbelin, 374
 Amarogentin, 490
 Amarolide, 374
 Ambroide, 374
 Amellin, 374
 Amentoflavone, 374
 Amine choline, 490
 Amines, 490
 Amino acids, 374, 490
 Amino adipic acid, 374
 Aminobutyric acid, 490
 Aminol, 374
Amomum cardamomum, 13, 233, 326, 399, 446, 475
Amomum globosum, 13, 233, 329, 399, 446, 475
Amomum tsao-ko, 13, 233, 399, 446, 475
Amomum villosum, 13, 233, 399, 446
Amomum xanthioides, 13, 233, 399, 446
Amorphophallus rivieri, 14, 345, 433
 Amorphous dracoalban, 374
 Amorphous dracoresene, 374
Ampelopsis aconitifolia, 14, 329, 374, 413, 418
Ampelopsis bodinieri, 14, 374, 413, 418
Ampelopsis brevipedunculata, 14, 360, 374, 413, 418
Ampelopsis contonensis, 14, 374, 413, 418
Ampelopsis humulifolia, 14, 374, 418
Ampelopsis japonica, 14, 327, 374, 413, 418
 Amritoside, 374
 Amurine, 374
 Amuroine, 375
 Amuroline, 375
 Amygdalin, 375, 491
 Amylase, 375
 Amylodextrins, 375
 Amylose, 375
 Amyrenol, 375

- Amyrenone, 375
 Amyrin, 375
 Anacardic acid, 375
Anagalis arvensis, 14, 168, 336, 375, 378, 397, 491, 499, 521
 Anagalligenone, 375
 Anagalline, 375, 491
 Anagyrene, 375, 491
Ananas comosus, 14, 168–169, 333, 367, 375, 482, 489, 495, 508, 511–512, 527
 Ananasic acid, 375
 Ancubin, 375
 Andelin, 375
 Andole alkaloids, 491
Andrographis paniculata, 15, 330, 375, 402, 445
 Andrographolide, 375
 Andromedotoxin, 375
Anemarrhena asphodeloides, 15, 362, 426, 438, 467, 472
Anemone cernua, 15, 233, 327, 459
Anemone hepatica, 234, 491, 527, 529
Anemone patens, 234, 491, 527, 529
Anemone pulsatilla, 15, 168, 234, 459, 491, 494, 500, 516, 519, 521, 527, 529
Anemone raddeana, 15, 233, 360, 420, 461–462
Anemone rivularis, 15, 233, 329, 420, 461–462
Anemone vitifolia, 15, 233, 360, 420, 461–462
 Anemoni, 491
 Anemonin, 375, 491
 Anemonol, 375, 491
 Anerhole, 491
 Anethol, 375
 Anethole, 375
Anethum graveoleus, 15, 169, 351, 381, 387, 399, 404, 427, 480, 498, 503, 510, 529
 Angelic acid, 375
Angelica amurensis, 16, 234, 327, 376, 424, 438, 450, 453, 467, 484
Angelica anomala, 16, 234, 327, 375–376, 424, 438, 450, 453, 467, 484
Angelica archangelica, 235, 495, 498, 502, 510, 517, 526–527
Angelica dahurica, 16, 234, 327, 375–376, 438, 450, 453, 484
Angelica decursiva, 16, 234, 347, 366, 375, 402, 410, 423–424, 447, 470, 480
Angelica grosserrata, 16, 234, 375
Angelica polymorpha, 16, 169, 331, 369, 384, 396, 412, 414, 433, 446, 457, 473, 482, 495, 508, 510, 513, 515, 520, 522
Angelica pubescens, 17, 375, 396, 417, 449, 477, 480
Angelica sinensis, 16, 234, 369, 384, 446, 473
 Angelicide, 491
 Angelicin, 375
 Angelicotoxin, 375
 Angelol, 375
 Angenomalin, 375
 Anhydroderrid, 376
 Anisaldehyde, 376, 491
 Anisatin, 376
 Anisic acid, 376
 Anisic ketone, 376
 Anisodamine, 376
 Anisodine, 376
 Ankorine isotubulosine, 376
 Annaparine, 376
 Anomalin, 376
 Anonaine, 376
Anredera cordifolia, 17, 359, 366
 Anromedotoxin, 376
 Anthaquinone glycosides, 491
 Anthelmic acid, 376
 Anthemidin, 491
 Antheraxanthin, 376
 Anthocyanidin, 376, 491
 Anthocyanidines, 376
 Anthocyanin, 376, 491
 Anthocyanosides, 491
 Anthranil acid, 376
 Anthranol, 376
 Anthraquinoids, 376
 Anthraquinone compounds, 491
 Anthraquinone derivatives, 376, 491
 Anthraquinone glycosides, 491
 Anthraquinones, 376, 491
 Anthraxin, 376
 Anthricin, 376
Anthriscus aemula, 17, 235, 356, 376, 403, 410, 422, 442, 469
Anthriscus cerefolium, 235, 498, 529
Anthriscus sylvestris, 17, 235, 376, 403, 410, 422, 442, 469
 Anti-HIV protein MAP, 377
 Antiprotease, 491
 Apigenin, 377, 491
 Apigenin-7-beta-D-glucoside, 377
 Apigenin-7-diglucuronide, 377
 Apigenin-7-O-glucoside, 377
 Apigenin-8-C-glucoside, 377
 Apiin, 377, 491
 Apiole, 491
Apium graveolens, 17, 169, 348, 377, 419, 491, 493, 498, 513, 516
 Aplotaxene, 491
 Apocynin, 491
 Apocynin, 492
Apocynum androsaemifolium, 235, 491–492, 499, 502, 505

- Apocynum venetum*, 17, 235, 343, 399, 427–428, 473
 Apyrocatechol, 377
Aquilaria agallocha, 18, 235, 330, 370, 372, 381, 422
Aquilaria buergeriana, 18, 235, 358, 381, 450, 475
Aquilaria flavescens, 235, 506
Aquilaria parviflora, 18, 235, 358, 381, 475
Aquilaria sinensis, 18, 330, 370, 372, 381, 422
Aquilaria vulgaris, 236, 446, 509, 514
 Arabinan polymer, 377
 Arabinon, 377
 Arabinose, 377
 Arabinose ester, 377
 Arachic, 377
 Arachidic acid, 377, 492
 Arachine, 377
Arachis hypogaea, 18, 344, 374, 377, 384, 388, 417–418
 Aragome, 377
Aralia catechu, 236, 501, 505
Aralia chinensis, 18, 236, 339, 373, 377, 383, 405, 429, 431, 455
Aralia cordata, 18, 236, 339, 373, 377, 383, 405, 429, 455
Aralia elata, 18, 236, 339, 373, 377, 383, 405, 429, 455
Aralia nudicaulis, 236, 501, 505
Aralia racemosa, 236, 501, 505
 Araligenin, 377
 Aralosides, 377
 Arasaponins, 377
Araucaria cunninghamii, 19, 346, 403, 431, 440–441
 Arborinol, 377
 Arborinone, 377
 Arbutin, 377, 492
 Arbutin ericolin, 377
 Archangelicin, 377
 Arctic acid, 492
 Arctigenin, 377
 Arctin, 378, 492
 Arctiol, 492
Arctium lappa, 19, 169, 346, 377–378, 433, 438, 468, 472, 492, 500, 507
Ardisia japonica, 19, 326, 347, 381
Ardisia quinquegona, 19, 362, 381
Ardisia sieboldii, 19, 352, 381
Areca catechu, 19, 170, 328, 378, 419–420, 492, 505–506, 508–509, 511, 515
Areca hortonsis, 19, 378, 419–420
 Arecaidine, 492
 Arecaine, 492
 Arecholidine, 378, 492
 Arecholine, 378, 492
Arenaria juncea, 19, 236, 361
Arenaria rubra, 236
Arenaria serpyllifolia, 19, 236, 361
 Aresentic acid, 378
Arethusa japonica, 19, 361
 Aretylcholine, 492
 Argamolic acid, 378
 Arginine, 378, 492
 Arginine glucoside, 378
 Aricine, 378
Arisaema amurense, 20, 354, 371, 380, 466
Arisaema consanguineum, 20, 170, 354, 371, 380, 466, 493, 527
Arisaema erubescens, 20, 354, 371, 380, 466
Arisaema heterophyllum, 20, 354, 371, 380, 466
Arisaema peninsulae, 20, 354, 371, 380, 466
Arisaema thunbergii, 20, 354, 371, 380, 466
 Arislolochic acid, 378, 492
 Arislolochic acid A, 378
 Arislolochic acid B, 378
Aristolochia clematitis, 237, 492, 529
Aristolochia contorta, 20, 236, 344, 378, 383, 420
Aristolochia debilis, 20, 236, 348, 378, 401, 403, 437
Aristolochia kaempferi, 20, 236, 344, 378, 383, 420
Aristolochia longa, 20, 236, 344, 378, 383, 420
Aristolochia manshuriensis, 20, 237, 346
Aristolochia recurvilabra, 20, 236, 344, 378, 383, 420
Aristolochia serpentaria, 237, 492, 529
Aristolochia shimadai, 21, 237, 344, 378
 Aristolone, 378
 Aristolosite, 378
 Arjunolic acid, 378
Armeniaca ansu, 21, 237, 357, 375, 422
Armeniaca mandshurica, 21, 237, 357, 375
Armeniaca sibirica, 21, 237, 357, 375
Armeniaca vulgaris, 21, 237, 357, 375
Arnebia euchroma, 21, 362, 369, 371, 379, 383, 469, 472
 Arnidiol, 378
 Aromadendrene, 378
 Aromadendrin, 378
 Aromadendrine, 378
 Aromatic acids, 378
 Arrenin, 378
Artemisia absinthium, 238, 488, 510, 526
Artemisia alcohol, 378
Artemisia annua, 21, 170, 348, 378, 404, 488, 492, 528
Artemisia apiacea, 21, 237, 348, 378, 404
Artemisia argyi, 22, 237, 326, 378, 384, 387, 476
Artemisia brachyloba, 22, 350, 369, 378, 392

- Artemisia capillaris*, 22, 237, 360, 388
Artemisia dracunculus, 238, 501, 512, 520
Artemisia finita, 23, 238, 330, 413
Artemisia frigida, 23, 326
Artemisia gmelini, 23, 238, 327, 380, 384, 428
Artemisia halodendron, 22, 237, 326, 378, 384, 387, 476
Artemisia igniaria, 22, 237, 326, 378, 384, 387, 476
Artemisia indica, 22, 237, 326, 378, 384, 476
Artemisia integrifolia, 22, 237, 326, 378, 384, 476
Artemisia japonica, 22, 237, 326–327, 378, 384, 476
Artemisia keiskeana, 22, 237, 326, 378, 384, 476
Artemisia lactiflora, 23, 238, 354, 395, 471, 476
Artemisia lagocephala, 22, 326, 378, 384, 476
Artemisia lavandulaefolia, 22, 326, 378, 384, 476
Artemisia scoparia, 22, 237, 326, 378, 384, 387, 476
Artemisia selengensis, 22, 237, 326, 378, 384, 387, 476
Artemisia sieversiana, 22, 326, 378, 384, 476
Artemisia tridentata, 238, 503, 529
Artemisia vulgaris, 22, 170, 326, 378, 384, 492, 507, 526
 Artemisine, 378
 Artemisinin, 378, 492
 Artesunate, 378
Arthraxon hispidus, 23, 340, 369, 376, 436
 Articulain, 378
 Artocapin, 492
Artocarpus altilis, 23, 345, 381, 435, 479
Artocarpus heterophyllus, 23, 328, 388, 390, 462
Arundinaria graminifolia, 23, 362, 387, 470
Arundo donax, 23, 343, 379, 419
Arundo phragmites, 23, 379, 419
 Arundoin, 378
 Asarensinotannol, 378
 Asariline, 378
 Asarinin, 492
 Asarone, 379, 492
Asarum canadense, 24, 171, 357, 378–379, 465, 479, 492, 495, 517, 525
Asarum europaeum, 24, 390
Asarum heterotropoides, 24, 357, 378–379, 465, 479
Asarum sieboldii, 24, 357, 378–379, 465, 479
Asarum terotropoides, 357
 Ascaridol, 379
 Ascaridole, 492
 Ascorbic acid, 379, 488, 492
 Ash, 379, 492
 Asiaticoside, 379, 492
 Asoryl-ketone, 379
 Asparagic acid, 379
 Asparagine, 379, 492
 Asparaginic acid, 379
 Asparagosides, 492
Asparagus cochinchinensis, 24, 354, 377, 418, 440, 448
Asparagus falcatus, 24, 354, 377, 418, 440
Asparagus insularis, 24, 354, 377, 418, 440
Asparagus lucidus, 24, 354, 377, 418, 440
Asparagus officinalis, 24, 171, 354, 377, 418, 440, 492
 Asparamide, 492
 Asperuloside, 379, 492
Aspidium falcatum, 24, 238, 335
Aspidium filix-mis, 238, 489, 514, 527
Aster ageratoides, 24, 238, 336, 429
Aster tataricus, 24, 171, 239, 362, 377, 469, 501, 512, 516–517, 521–522, 527
Astilbe chinensis, 24, 366, 379
Astilbe longicarpa, 24, 344, 366, 379
 Astilbin, 379
 Astragalin, 379
 Astragalosides, 379
Astragalus americana, 239, 492, 503, 509, 523
Astragalus chinensis, 25, 239, 349, 379, 422
Astragalus complanatus, 25, 239, 338, 379, 383, 387, 396, 413–414, 416, 422, 426, 429, 461, 463
Astragalus henyri, 25, 239, 379, 383, 396, 413, 416, 422, 426, 461, 463
Astragalus hoantchy, 25, 239, 338, 379, 383, 387, 396, 413, 416, 422, 426, 461, 463
Astragalus melilotoides, 25, 239, 338, 379, 383, 387, 396, 422, 426, 461, 463
Astragalus membranaceus, 25, 171, 338, 379, 383, 387, 396, 416, 422, 426, 461, 463, 492, 495, 503, 509, 523
Astragalus mongholicus, 25, 239, 338, 379, 383, 387, 396, 422, 426, 463
Astragalus reflexistipulus, 25, 239, 338, 379, 383, 426, 461, 463
Astragalus sinensis, 25, 239, 338, 379, 383, 387, 461, 463
 Athocyanin, 492
 Atractylenolide II, 493
 Atractylenolide III, 493
Atractylis chinensis, 25, 361, 379, 403, 421
Atractylis lancea, 25, 361, 379, 403
Atractylis lyrata, 25, 361, 379, 403
Atractylis ovata, 25, 361, 379, 403
Atractylodes chinensis, 25, 239, 327, 379, 384, 410
Atractylodes japonica, 25, 239, 327, 379, 384, 410, 421
Atractylodes koreana, 25, 239, 327, 379, 384, 410, 421

Atractylodes lancea, 25–26, 239, 329, 379, 384, 410, 421
Atractylodes macrocephala, 25, 171, 239, 327, 379, 384, 410, 493, 509
Atractylodes ovata, 25, 239, 379, 384, 410
 Atractylodine, 379
 Atractylol, 379, 493
 Atractylone, 379
 Atropine, 379
 Atropine alkaloids, 493
Aucklandia costus, 26, 346, 387, 396, 467
Aucklandia lappa, 26, 396, 467
 Aucubin, 379, 493
 Aucuboside, 493
 Aurantio-obtusin rubrofusarin, 379
 Auraptin, 379
 Auroxanthin, 379
 Austroinulin, 379
Avena fatua, 26, 239, 359, 369, 374, 379–380, 383, 409, 426, 433, 450, 468, 484
Avena sativa, 240, 496, 528
 Avenasterol, 380
 Avicularin, 380
 Awobanin, 380
 Azadarachtin, 380
Azalea japonica, 26, 359
Azalea mollis, 26, 359
Azalea pontica, 26, 359
 Azaleatin, 380
 Azelaic acid, 380
Azolla imbricata, 26, 344, 370, 436
 Azulene, 380, 493

B

Ba Dou, 326
 Ba Ji Tian, 326
 Ba Jian Lian, 326
 Ba Jiao Feng, 326
 Ba Jiao Hui Xiang, 326
 Ba Li Ma, 326
 Baccatin, 380
 Bai Bao Zi, 326
 Bai Ben Dou, 326
 Bai Bu, 326
 Bai Chen, 326
 Bai Dou Ku, 326
 Bai Guo, 326
 Bai He, 326
 Bai Hua, 326
 Bai Hua Shi Shi Cao, 327
 Bai Hua Teng, 326
 Bai Hua Yi Mu Cao, 327

Bai Ji, 326
 Bai Jiang Cao, 327
 Bai Jie, 327
 Bai Jie Zi, 327
 Bai Lian, 327
 Bai Lian Guo, 327
 Bai Long Chuan Hua, 327
 Bai Mao, 327
 Bai Qian Ceng, 327
 Bai Qu Cai, 327
 Bai Rui Cao, 327
 Bai Shao, 327
 Bai Tou Went, 327
 Bai Tu Own, 327
 Bai Way, 327
 Bai Xian Pi, 327
 Bai Ye Diao Zhang, 327
 Bai Yin Shu, 327
 Bai Ying, 327
 Bai Yu Lan, 327
 Bai Zhi, 327
 Bai Zhu, 327
 Bai Zhu Shu, 327
 Baicalein, 380, 493
 Baicalin, 380, 493
 Baldrianic acid, 493
 Balsam, 380
 Balsamic acid, 380
 Balsaminasterol, 493
 Balsaminones, 493
 Ban Bian Lian, 327
 Ban Jiu Jiu, 328
 Ban Lan, 328
 Ban Lan Gen, 328
 Ban Lan Geng, 328
 Ban Xia, 328
 Ban Zi Lian, 328
 Bang Chui Hui, 328
Baphicanthus cusia, 26, 328, 331, 424, 426, 432, 479
 Barbaloin, 380, 493
 Barbatic acid, 380
 Barium, 380
 Bauerenol, 380
Bauhinia championi, 27, 341, 383, 388, 413, 429
Bauhinia variegata, 27, 388, 413, 429
 Bavachin, 493
 Bavachinin, 380
 Be Han Cao, 328
 Behenic acid, 380
 Bei Mei Do Xing Cao, 328
 Bei Mu, 328
 Bei Pu Jiang, 328
 Bei Xian, 328
 Bei Za Seng, 328

- Belamcanda chinensis*, 27, 240, 350, 475, 493, 507–508, 525
Belamcanda panchata, 27, 240, 350, 475
 Belamcandaquinones A, 493
 Belamcandaquinones B, 493
 Bellidifolin, 380
Benincase cerifera, 27, 332, 379, 463, 471
Benincase hispida, 27, 172, 332, 379, 463, 505, 521
 Bensaldehyde, 380, 493
 Benzene tert-butyl, 380
 Benzoic acid, 380, 493
 Benzolacetic ester, 380
 Benzol-aconitine, 493
 Benzophenone, 493
 Benzoquinene, 493
 Benzoquinone, 380
 Benzoyl paeoniflorin, 380
 Benzoyl salicin, 381
 Benzoyllecgonine, 381, 493
 Benzyl alcohol, 381
 Benzyl benzoate, 493
 Benzyl isothiocyanate, 381
 Benzylacetone, 381
 Benzylbenzoic acid, 381
 Berbamine, 381
 Berberine, 381, 493
Berberis amurensis, 27, 240, 358, 381, 428, 450–451
Berberis aquifolium, 240, 493, 498, 511, 518
Berberis poiretii, 27, 240, 358, 381, 428, 450
Berberis sibirica, 27, 240, 358, 381, 428, 450
Berberis soulieana, 27, 240, 358, 381, 428, 450
Berberis vulgaris, 240, 493
 Berberubine, 493
 Bergapten, 381, 493
 Bergapten, 381
 Bergegin, 493
 Bergenin, 381
 Bergenine glucoside, 381
 Beta-acid, 494
 Beta-agarofuran, 381
 Beta-amirine, 381
 Beta-amyrenol, 381
 Beta-amyrin, 381, 494
 Beta-amyrin acetate, 381
 Beta-asarone, 381
 Beta-carotene, 494
 Beta-carotenoid, 382
 Beta-caryophyllene, 382
 Beta-caryophylline, 382
 Betacyamines, 383
 Betacyanin, 383
 Beta-cyperene, 382
 Beta-D-glucopyranosil, 494
 Beta-D-glucoside, 494
 Beta-D-glucosyloxy, 382
 Beta-dichroine, 382
 Beta-dihydropseudoionone, 382
 Beta-dimethylacrylate, 382
 Beta-dimethylacryloylshikonin, 382
 Beta-elemone, 382, 494
 Beta-ergosterol, 494
 Beta-eudesmol, 382
 Beta-globulin, 382
 Beta-glycyrrhetic acid, 382
 Beta-guaianen, 382
 Beta-gurjunene, 382
 Betaine, 383, 494
 Beta-ionone, 382
 Beta-masticoresin, 494
 Beta-methyl-adipic acid, 494
 Beta-methylaesculetin, 382
 Betanidin, 383
 Betanin, 383
 Beta-OH-isovalerylshikonin, 382
 Beta-p glucophyranoside, 382
 Beta-pachyman, 494
 Beta-pachymanase, 494
 Beta-phellandrene, 382
 Beta-phenethyl alcohol, 382
 Beta-pinene, 382, 494
 Beta-santalene, 382
 Beta-santalol, 382
 Beta-selinene, 383
 Beta-sitosterol, 383, 494
 Beta-sitosterol glucoside, 383
 Beta-sitosteryl palmitate, 383
 Beta-solamargine, 383
 Beta-sotpsterols, 383
 Beta-taralin, 383
 Beta-thujone, 494
 Beta-trevilline, 383
 Betonicine, 383, 494
Betula lenta, 240, 501, 504, 507, 512, 521, 524
Betula mandshurica, 27, 240, 326, 384
Betula pendula, 240, 501, 504, 507, 512, 521, 524
Betula platyphylla, 27, 240, 326, 384
Betula verrucosa, 240, 501, 504, 507, 512, 521, 524
 Betulafolienetetraol, 384
 Betulafolienetriol, 384
 Betulic acid, 384
 Betulin, 384
 Betulinic acid, 384, 494
 Betuloside, 384
 Beyerene, 494
 Bi Ba, 328
 Bi Cheng Qie, 328
 Bi Du Juan Hua, 327

- Bi Li Go, 328
 Bi Ma Zi, 328
 Bi Qao Jiang, 328
 Bian Xu, 328
 Bianthraquinonyl, 384
 Biatractylolide, 384
Bidens bipinnata, 27, 241, 341, 413, 488, 524
Bidens connata, 241, 488, 523–524, 529
Bidens parviflora, 27, 241, 341, 413
Bidens pilosa, 27, 241, 353, 454, 457
Bidens tripartita, 27, 172, 241, 342, 405, 480, 521, 523, 529
 Biflorine, 384
 Biflorone, 384
 Bigelovin, 384
Bignonia catalpa, 241, 496, 515, 518
Bignonia chinensis, 28, 241, 362
Bignonia grandiflora, 28, 241, 362
 Bilobal, 384
 Bilobalide, 494
 Bilobetin, 384, 494
 Bing Lang, 328
 Bioflavonoids, 494
Biota chinensis, 28, 329, 456, 461
Biota orientalis, 28, 172, 329, 456, 461, 490, 494, 502, 520, 522
 Biotin, 384, 494
 Bis (2-ethyl butyl) phthalate, 384
 Bisabolene, 384
 Bisesquiterpenoid, 384
 Bishomophinolenic acid, 494
 bis-norargemonine, 494
Bistorta lapidosa, 28, 351
 Bitter glycoside, 384
 Bitter principle, 384
Bletilla hyacinthina, 28, 326
Bletilla striata, 28, 326
Blumea balsumifera, 28, 172, 241, 326, 384, 405, 443, 460, 469, 497, 503, 522
Blumea hieracitifolia, 28, 241, 355
Blumea lacera, 28, 241, 337, 375, 412
Blumea ripara, 29, 241, 349
 Bo Hoo, 328
 Bo Lo Mi, 328
 Bo Lou Hui, 328
 Bocconine, 384
 Bocconoline, 384
Boehmeria densiflora, 29, 346, 379, 381, 433, 463
Boehmeria tenacissima, 29, 361
Boenninghausenia albiflora, 29, 330
 Bogoroside, 384
 Bonducin, 384, 494
 Borneol, 384, 495
 Borneol acetate, 385, 495
 Bornol, 385
 Bornyl acetate, 385
 Bornyl esters, 495
 Bornyl isovalerate, 385, 495
 Bornylautate, 385
 Boschniakine, 385
 Boschnialactone, 385
Bougainvillea brasiliensis, 29, 330, 367–368, 383
Bougainvillea glabra, 29, 330, 367–368, 383
 Bourbonene, 385
 Brahmissoside, 385
 Brahmoside, 385
 Brasilin, 385
Brassica alba, 29, 173, 327, 372, 380–381, 407, 409, 443, 458, 469, 513
Brassica juncea, 29, 173, 327, 372, 380–381, 407, 409, 443, 458, 469, 513
 Brefeldin A, 495
 Bromelain, 495
 Bromelin, 385
Brucea javanica, 29, 358, 484
Brucea sumatrana, 29, 358, 484
 Bruceines, 385
 Bruceolide, 385
 Brucine, 385
 Brusatol, 385
 Bu Gu Zi, 328
Buddleia formosana, 29, 328
Buddleia madagascariensis, 29, 345
Buddleia officinalis, 29
 Buddleoglycoside, 385
 Bufotenine, 385
 Bulbocapnine, 385
 Bullatines, 385
 Bulnesene, 495
 Bupleuran, 385
Bupleurum chinense, 30, 329, 377, 400, 430, 465–466, 479
Bupleurum falcatum, 30, 173, 329, 377, 400, 430, 465–466, 479, 495, 503, 520
Bupleurum scorzoneraefolium, 30, 329, 377, 400, 465–466, 479
 Bupleurumol, 495
 Bursic acid, 385
 Bursine, 495
 Buteine, 385
 Butin, 385
 Butylenephthalide, 385
 Butylphthalide, 495
 Butyric acid, 385
 Buxanmine E, 386
 Buxpiine, 386
 Buxpiine K, 386
Buxus harlandii, 30, 241, 353, 399
Buxus microphylla, 30, 241, 338, 399
Buxus sempervirens, 242, 490, 523

Byak-angelicin, 386

Byak-angelicol, 386

C

c-3-epi-wilsonine, 386

Cadinene, 386, 495

Caesalpinia ascendens, 242, 494, 502, 524

Caesalpinia bonducella, 242, 494, 524

Caesalpinia decapetala, 30, 242, 361, 384, 419, 483

Caesalpinia pulcherrima, 30, 242, 338, 371, 462

Caesalpinia sappan, 30, 242, 353, 458, 474

Caesalpinia sylvatica, 242, 494, 502

Caffeic acid, 386, 495

Caffeic derivatives, 495

Caffeine, 386, 495

Cai Fu, 328

Cajuputol, 386

Calamene, 386

Calamenol, 386

Calamenone, 386

Calamus margaritae, 31, 351

Calcium, 386, 495

Calcium malate, 386

Calcium oxalate, 386, 495

Calcyosin, 495

Calechin, 387

Calendula officinalis, 31, 173, 378, 387, 390, 414, 436, 462, 465, 478, 481, 496, 503, 527

Calenduline, 387

Callicarpa formosana, 31, 355

Callicarpa macrophylla, 31, 363, 413, 462

Callicarpa nudiflora, 31, 344

Calloglossa leprieurii, 31, 339, 345, 361, 373, 404

Caltha leptosepala, 242

Caltha palustris, 31, 242, 344, 375, 381, 390–391, 420, 427, 459, 466–467, 480, 484

Calystegia hederacea, 31, 242, 331, 429

Calystegia japonica, 31, 242, 331, 429

Calystegia sepium, 242, 466, 495, 509

Calystegins, 495

Cam Dou, 329

Camellia bohea, 32, 329

Camellia japonica, 32, 349, 377, 387, 400, 463, 477

Camellia sinensis, 32, 173, 329, 492, 494–495, 512, 514, 517, 519, 526

Camellia theifera, 32, 329

Camellia viridis, 32, 329

Camelliagenins, 387

Camellin, 387

Campanula gentianoides, 32, 339, 456

Campanula gjauca, 32, 243, 339

Campanula glomerata, 32, 243, 333, 391, 396, 423, 427, 429, 440, 478

Campanula grandiflora, 32, 243, 339

Campanula palustris, 243, 494–495, 501–502, 511, 513, 520

Campanula punctata, 32, 243, 333, 423, 427, 440, 478

Campanula rotundifolia, 243, 494–495, 501–502, 511, 513, 520

Campesterol, 387, 495

Camphene, 387, 495

Campherene, 387

Camphesterol, 495

Camphol, 387

Camphor, 387, 495

Camphore, 387

Camphorm citral, 387

Campsis adrepens, 32, 362, 398, 403

Campsis chinensis, 32, 362, 398, 403

Campsis grandiflora, 32, 362, 398, 403

Camptotheca acuminata, 33, 357, 366, 423, 440, 481

Camptothecin, 387

Canada Pon, 328

Canaline, 387

Canarium album, 33, 334, 379, 381, 463, 477

Canarium sinense, 33, 334, 379, 381, 463, 477

Canavalia ensiformis, 33, 387, 417

Canavalia gibberellin I, 387

Canavalia gibberellin II, 387

Canavalia gladiata, 3, 331, 387, 417

Canavoline, 387

Canavanine, 387

Candicine, 387

Canescein, 388

Cang Er, 329

Cang Zhu, 329

Caniferyl aldehyde, 388

Cannabidiol, 388

Cannabinol, 388

Cannabis chinensis, 33, 331, 338, 388, 430, 443, 476, 478, 482, 507

Cannabis sativa, 33, 173–174, 430, 443, 476, 478, 482, 497, 517, 526, 529

Cao Bai Ching, 329

Cao Guo, 329

Cao He Che, 329

Cao Jue Ming, 329

Cao Wu, 329

Cao Yu Mei, 329

Caoutchouce, 388, 495

Capadiene, 388

Capillanol, 388

- Capillarin, 388
 Capillene, 388
 Capillin, 388
 Capillon, 388
 Capric acid, 388
 Capronic acid, 388, 495
 Caprylic, 388
Capsella bursa-pastoris, 33, 174, 339, 371, 393, 481, 488, 490, 495, 503, 506, 517, 527
 Capsularin, 388
Caragana franchetiana, 33, 340, 371, 418
Caragana intermedia, 33, 340, 371, 418
Caragana microphylla, 33, 340, 371, 418
Caragana sinica, 33, 340, 371, 418
 Carbohydrates, 388, 495
 Carboxylic acid, 495
Cardamine leucantha, 33, 243, 354, 409, 432, 435, 443, 469
Cardamine lyrata, 33, 354, 409, 435, 443, 469
Cardamine pratensis, 243, 512
 Cardenolides, 496
 Cardiac glycosides, 388, 496
 Cardienolides, 496
 Cardoside, 388
Carduus acaulis, 34, 243, 358, 419
Carduus benedita, 243, 497, 510, 529
Carduus crispus, 34, 243, 358, 419
Carduus japonicus, 34, 243, 358, 419
Carduus marianus, 243, 502, 522
 Carene, 388, 496
 Carenolide, 388
 Cariaester, 496
 Carosine, 388
 Carotene, 388, 496
 Carotenoids, 389, 496
 Carotol, 389
Carpesium abrotanoides, 34, 336, 354, 424
Carpesium athunbergianum, 354, 424
 Carpylic acid, 389
 Carthamone, 496
Carthamus tinctorius, 34, 174, 336, 461, 465, 496, 528
 Cartharmin, 389
Carum carvi, 34, 174, 359, 392, 396, 399, 421, 467, 480, 503, 510, 517
 Carvacrol, 389, 496
 Carvone, 389, 496
 Caryophyllen, 496
 Caryophyllene, 389, 496
 Caryophyllene oxide, 389
Cassia alata, 34, 243, 333, 372, 412, 425, 450
Cassia angustifolia, 35, 174, 243, 333, 372, 376, 403, 429, 463, 468, 490–491, 500, 514, 520–522
Cassia nomame, 35, 244, 376, 379, 392, 407, 444, 447–448, 463, 478
Cassia obtusifolia, 35, 244, 341, 376, 379, 392, 444, 447–448, 463, 478
Cassia occidentalis, 35, 244, 355, 376–377, 403, 420, 444, 484
Cassia senna, 244, 490–491, 500, 514, 520–522
Cassia siamea, 35, 244, 355, 392, 450
Cassia tora, 35, 244, 355, 376, 379, 392, 403, 444, 447–448, 463, 478
Cassia torosa, 35, 244, 376–377, 420, 484
 Cassiollin, 389
 Cassyfiline, 389
Cassytha filliformis, 35, 347, 389, 415, 432
 Cassythidine, 389
 Cassythine, 389
Castanea crenata, 35, 244, 379, 381, 463, 477
Castanea mollissima, 35, 339, 379, 381, 463, 477
Castanea sativa, 244, 513, 517
Castanea striatus, 244
 Casticin, 389, 496
 Castor oil, 389
 Catalpine, 496
 Catapol, 389, 496
 Catechin, 389, 496
 Catechin derivatives, 389
 Catecholamines, 389
 Catechutanic acid, 389
Catharanthus roseus, 36, 175, 329, 388, 433, 453, 464, 481, 500, 514–515, 521–522, 524, 528
 Cathartic acid, 389
 Caudoside, 389
 Caudostroside, 389
 Caulophylline, 496
Caulophyllum robustum, 36, 244, 356, 373, 389, 441
Caulophyllum thalictroides, 245, 491, 496, 509, 511–512
 Caulosaponin, 496
 Cauloside, 389
 Ce Bai Ye, 329
 Ce Yan, 329
 Celastrol, 389
Celastrus alatus, 36, 356
Celastrus striatus, 36, 356
 Cellulose, 389
Celosia argentea, 36, 329, 339, 390, 419, 423, 427, 446, 461
Celosia cristata, 36, 419, 423, 427, 446, 461
Celosia margaritacea, 36, 329, 419, 423, 427, 461
 Celosiaol, 390
Celtis australis, 245, 513
Celtis bungeana, 36, 245, 347
Celtis sinensis, 36, 245

- Cembrene, 390
 Centaur X, 390
Centaurium erythraea, 245, 493, 504, 521, 523, 529
Centaurium meyeri, 36, 245, 326, 384, 391, 449
Centella asiatica, 37, 175, 339, 379, 418, 452, 462, 470, 474, 481, 492, 506, 511, 521, 527
Centipeda minima, 37, 352, 371, 419, 443, 466
 Cephaeline, 390
Cephalanoplos segetum, 37, 358, 371, 391, 466
 Cephalomannine, 390
 Cephalotaxine, 390
 Cephalotaxinone, 390
Cephalotaxus fortunei, 37, 349, 390, 402, 408, 420, 483
Cephalotaxus oliveri, 37, 390, 402, 408, 420, 483
Cephalotaxus qinensis, 37, 390, 402, 408, 420, 483
Cephalotaxus wilsoniana, 37, 331, 368, 408, 420, 422, 426, 483
 Cepharamine, 390
 Cepharanthine, 390
 Cerotic acid, 390
 Cerotinic acid, 390
 Cerylalcohol, 390
 Cerylic alcohol, 390
 Cevadine, 390
 Cha, 329
 Chaconine, 496
Chaenomeles japonica, 37, 339, 422, 437, 482
Chaenomeles sinensis, 37, 358, 422, 482
Chaenomeles speciosa, 37, 175, 358, 482, 501, 507, 518
 Chai Hu, 329
 Chalcone glucose, 390
 Chalcones flavonoids, 496
Chamaenerion angustifolium, 38, 175, 343, 390, 396, 438, 452, 488, 502
 Chamazulene, 496
 Chanerol, 390
 Chang Bai Rui Xian, 329
 Chang Chun Hua, 329
 Chang Chun Ton, 329
 Chang Guo, 329
 Chang Pu, 329
 Chang Shan, 329
 Chang Shu, 329
Changium smyrnioides, 38, 345
 Charantin, 496
 Chatinine, 390
 Chaulmoogric acid, 390
 Chavicine, 390
 Chavicol, 390
 Che Chen Zi, 329
 Che Sang Zi, 329
 Che Ye Sha Seng, 329
 Che Zhou Cao, 329
 Chebulic acid, 390, 496
 Chebulinic acid, 390
 Chelerythrine, 390, 496
 Chelidocystatin, 390
 Chelidonic acid, 496
 Chelidonine, 390, 496
Chelidonium album, 38, 327, 372, 390, 395, 471, 473
Chelidonium hybridum, 38, 327, 372, 390, 395, 471, 473
Chelidonium majus, 38, 176, 327, 372, 390, 395, 471, 473, 490, 493, 496, 508, 522
Chelidonium serotinum, 38, 327, 372, 390, 395, 471, 473
 Chelilutine, 390
 Chelirubine, 391
 Chen Pi, 329
 Chen Wei, 330
 Chen Xiang, 330
Chenopodium ambrosioides, 38, 176, 330, 374, 379, 381, 407, 417, 427, 431, 462, 492, 504, 513
 Chikusetsa saponin II, 391
 Chikusetsa saponin IV, 391
Chimaphila umbellata, 38, 176, 345, 375, 377, 380–381, 391, 421, 423, 426, 429, 480, 502, 506, 512 526
 Chimpahilin, 391, 496
 Chinese Ji, 330
 Ching Mian Hua, 330
 Chinic acid, 391
 Chiretta, 391
 Chiu Chung Ko, 330
 Chlogogenic acid, 391
Chloranthus glubra, 39, 341, 413, 452
Chloranthus oldnami, 39, 353, 413, 452
 Chlorogen acid, 391
 Chlorogenic acid, 391, 497
 Chlorogenic derivatives, 497
 Chlorogenin, 391
 Chlorophenolic acid, 391
 Chloroquine, 391
 Cholesterol, 391
 Choline, 391, 497
 Choline asparaginer, 391
 Chou Chie Cao, 330
 Chou Fu Yong, 330
 Chou Lee, 330
 Chou Mu Lee, 330
 Chou Wu Tong, 330
 Chou Xing, 330

- Chromone, 392
 Chrysanthemaxanthin, 392
 Chrysanthemin, 392
Chrysanthemum boreale, 39, 245, 341, 373, 389, 392, 484
Chrysanthemum cinerriaefolium, 39, 176, 245, 330, 369, 389, 392, 471, 515, 519, 522
Chrysanthemum indicum, 39, 359, 373, 389, 392, 484
Chrysanthemum jucundum, 39, 245, 341, 368–369, 389, 391–392, 396, 405, 471
Chrysanthemum koraiense, 39, 245, 341, 368–369, 392, 396, 405, 471
Chrysanthemum lavandulaefolium, 39, 359, 373, 484
Chrysanthemum morifolium, 39, 341, 368–369, 396, 405, 471
Chrysanthemum parthenium, 245, 522
Chrysanthemum procumbens, 39, 245, 359, 373, 484
Chrysanthemum sinense, 39, 245, 341, 368–369, 396, 405, 471
Chrysanthemum tripartium, 39, 359, 373, 484
Chrysanthemum vulgare, 245
 Chrysanthinin, 392
 Chrysarobin, 392
 Chryso-obtusin, 392
 Chrysophanein, 392
 Chrysophanic acid, 392, 497
 Chrysophanol, 392, 497
 Chu Chong Jiu, 330
 Chu Gu Jiu, 330
 Chu Ye, 330
 Chuan Duan Chang Cao, 330
 Chuan Jian, 330
 Chuan Jin Pi, 330
 Chuan Lian, 330
 Chuan Shan Long, 330
 Chuan Xiang, 330
 Chuan Xin Lian, 330
 Chui Pen Chao, 330
 Chun Pi, 330
 Chung Way, 330
 Ci Gu, 330
 Ci Hi Li, 331
 Ci Luo Shi, 331
 Ci Seng, 331
 Ci Wu Jia, 331
Cibotium barometz, 39, 336
 Cicerose, 392
Cimicifuga dahurica, 39, 351, 374, 392, 412, 429
Cimicifuga foetida, 39, 176–177, 351, 374, 392, 412, 489, 497, 508, 520, 526
Cimicifuga heracleifolia, 39, 351, 374, 392, 412
Cimicifuga racemosa, 39, 177, 351, 374, 392, 412, 489, 497, 508, 520, 523, 526
Cimicifuga ussuriensis, 39, 351, 374, 392
 Cimicifugin, 497
 Cimicifugoside, 497
 Cimifugenol, 392
 Cimigenol, 392
 Cimitin, 392
 Cincholic acid, 392
 Cincole, 392
 Cineol acid, 392
 Cineole, 392, 497
 Cinerins, 497
 Cinnamaldehyde, 497
 Cinnamic acid, 393, 497
 Cinnamic aldehyde, 393
Cinnamomum aromaticum, 40, 335, 393, 449
Cinnamomum camphora, 40, 177, 329, 366, 378, 392, 397, 399, 410, 502, 510, 520
Cinnamomum cassia, 177, 335, 393, 449, 495, 500, 517
Cinnamomum zeglanicum, 40, 177–178, 331, 380, 389, 431, 441, 502, 513
 Cinnamon, 497
 Cinnamyl acetate, 393
 Cinnamyl cinnamate, 497
 Cinnamylococaine, 393
Cirsium albescens, 40, 358, 368, 464
Cirsium brevicaule, 40, 358, 368, 464
Cirsium chinense, 41, 330, 372, 381, 383, 424, 431, 452, 472, 475
Cirsium japonicum, 41, 331, 358, 372, 381, 383, 424, 431, 452, 472, 475
Cirsium littorale, 40, 358, 368, 464
Cirsium maakii, 40, 358, 368, 464
Cirsium segetum, 40, 358, 368
Cirsium setosum, 40, 358, 368
Cirsium vlassovianum, 40, 358, 368
 Cissamine, 393
 Cissampeline, 497
Cissampelos pareira, 41, 178, 357, 393, 400, 406, 420, 439, 497
Cistanche deserticola, 41, 407
 Citral, 393, 497
 Citrene, 393
 Citric acid, 393, 497
 Citrifoliol, 393
 Citrogellol, 393
 Citrol, 393
 Citronellal, 393, 497
 Citronellic, 393
 Citronellol, 393, 497
 Citrulline, 393, 497

- Citrullus anguria*, 41, 353, 388–389, 397, 432, 443, 471
Citrullus edulis, 41, 353, 388, 397, 443, 471
Citrullus lanatus, 41, 353, 388, 397, 443, 471
Citrullus vulgaris, 41, 178, 353, 397, 443, 471, 492
Citrus aurantium, 41, 178, 353, 444, 460, 474, 493–494, 498, 528
Citrus deliciosa, 41, 341, 421, 440, 481
Citrus nobilis, 41, 421, 440, 481
Citrus reticulata, 42, 329, 340, 377, 417, 421, 446, 457, 471
Clavatine, 393
Clavatoxine, 393
Clavoloninine, 393
Clematis armandii, 42, 245, 346, 378, 466, 479
Clematis chinensis, 42, 246, 356, 375
Clematis florida, 356, 375
Clematis heracleifolia, 42, 245, 346, 378, 466, 479
Clematis hexapetala, 42, 246, 356, 375
Clematis intricata, 42, 246, 355, 393
Clematis mandshurica, 42, 246, 355, 393
Clematis minor, 42, 246, 356, 375
Clematis sinensis, 42, 246, 356, 375
Clematis terniflora, 42, 246, 356, 375
Clematis virginiana, 246, 518, 521
Clematis vitalba, 246, 518, 521
Clematoside A, 393
Cleome gynandra, 42, 474, 483
Cleome spinosa, 42, 353, 393, 474, 483
Cleome viscosa, 42, 357, 393, 474, 483
Cleomin, 393
Clerodendrin, 393
Clerodendrin acetate, 497
Clerodendrum cyrtophyllum, 43, 331, 366, 418, 424, 432, 479
Clerodendrum fragrans, 43, 330, 366
Clerodendrum paniculatum, 43, 327, 366
Clerodendrum spicatus, 43, 354, 368, 377, 414, 440
Clerodendrum trichotomum, 43, 178, 330, 368, 377, 393–394, 414, 440, 497, 512
Clerodolone, 394
Clerosterol, 394
Clinopodium acinos, 246
Clinopodium chinense, 43, 246, 333, 377, 406, 421, 470, 480
Clinopodium gracile, 43, 246, 335, 377, 406, 421, 470, 480
Clinopodium polycephalum, 43, 246, 377, 406, 421, 470, 480
Clinopodium umbrosum, 43, 246, 333, 377, 406, 470, 480
Clivia miniata, 43, 341, 394, 437, 442
Clividine, 394
Clovane, 394
Cnicin, 497
Cnidiadin, 394
Cnidilide, 394
Cnidimine, 394
Cnidium monnieri, 44, 179, 350, 377, 394, 430, 447, 495, 508
Cocain, 498
Cocculolidine, 394
Cocculus diversifolius, 44, 333, 369, 405, 427, 441, 469–470, 479
Cocculus laurifolius, 44, 345, 394, 422, 428, 447, 479
Cocculus sarmentosus, 44, 338, 394, 422, 428, 447, 479
Cocculus thunbergii, 44, 333, 369, 405, 427, 441, 469–470, 479
Cocculus trilobus, 44, 345, 394, 422, 428, 447, 479
Coclobine, 394
Codeine, 394, 498
Codonopsis lanceolata, 44, 359, 371, 373, 377, 407, 472
Codonopsis pilosula, 44, 179, 332, 374, 414, 418, 424, 441, 471–472, 475, 490, 516–517, 523–524, 527
Codonopsis tangshen, 44, 179, 332, 374, 414, 418, 424, 441, 444, 471–472, 475, 490, 516–517, 523–524, 527
Codonopsis ussuriensis, 44, 332, 374, 414, 418, 424, 441, 444, 471, 475
Coix agrestis, 45, 360, 394, 443, 471
Coix chinensis, 45, 360, 394, 443, 471
Coix lachryma, 45, 360, 394, 443, 471
Coix lachryma-jobi, 45, 360
Coixenolide, 394
Coixol, 394
Colchicine, 394
Colchicine amide, 394
Columbamine, 394, 498
Columbianetin, 394
Colxol, 498
Comarinic acid-beta-glucoside, 394
Commelin, 394
Commelina communis, 45, 358, 380, 394
Commiphora molmol, 246, 488, 505
Commiphora myrrha, 45, 179, 246, 345, 372, 390, 419, 462, 484, 488, 505, 519
Complanatine, 394
Condensed tannin, 394
Condurangin, 394
Condurangogenins, 498
Confertifolin, 394
Cong, 331

- Cong Lan, 331
 Coniferaldehyde, 498
 Coniferyl alcohol, 394
 Coniferyl cinnamate, 394
Conioselinum univittatum, 45, 335
 Convallamarin, 394
Convallaria keiskei, 45, 247, 342, 394–395
Convallaria majalis, 247, 496, 498, 503
Convallaria sepium, 247, 496, 498, 503
 Convallarin, 395
 Convallatoxin, 395
 Convallatoxol, 395, 498
 Convalloside, 395
 Convolvulin, 498
Convolvulus arvensis, 45, 247, 355, 429
Convolvulus jajapa, 247
Conyza canadensis, 45, 179, 381, 390, 397, 403, 435, 503, 510, 525
 Copaene, 395
Coptis chinensis, 46, 180, 381, 394–395, 428, 451, 480, 483, 493, 498, 508, 529
Coptis groenlandica, 247, 395, 493, 498, 508
Coptis japonica, 46, 247, 338, 381, 428, 480, 483, 508
Coptis teeta, 46, 180, 381, 428, 480, 483
Coptis trifolia, 247, 493, 498
 Coptisine, 395, 498
 Corchorin, 395
 Corchoritin, 395
 Corchoroside A, 395
Corchorus capsularis, 46, 338, 370, 395, 419, 471
Corchorus olitorius, 46, 349, 370, 395, 404, 409, 418–420, 449
 Corchotoxin, 395
 Cordycepic acid, 395
 Cordycepin, 395
Cordyceps sinensis, 46, 332, 366, 369, 464
 Coreximine, 395
 Coriandrol, 395
Coriandrum sativum, 47, 180, 356, 368, 370, 395–396, 399, 401, 417, 429, 437, 464, 467, 476, 480, 490, 518, 525
 Corilagin, 395
Coriolus versicolor, 47, 457
 Cornerin, 498
 Cornigerine, 395
 Cornin, 395
Cornus alba, 47, 247, 405, 429, 454, 461
Cornus canadensis, 247, 498
Cornus florida, 248, 504, 511, 521, 524–525, 527
Cornus kousa, 47, 247, 353, 405, 429, 454
Cornus macrophylla, 47, 247, 339, 405, 429, 454, 461
Cornus officinalis, 47, 180, 247, 350, 368, 435, 442, 462, 473, 507, 521, 527
Cornus walteri, 47, 247, 341, 412, 435
 Corosolic acid, 395
 Cortenerin, 498
 Corticosteroids, 395
 Corycavine, 395
 Corydalamine, 395
 Corydaline, 498
 Corydalis, 395, 498
Corydalis ambigua, 48, 248, 359, 372, 394, 397, 400, 406, 476
Corydalis bungeana, 48, 248, 332, 369, 395, 425, 451, 470
Corydalis decumbens, 48, 248, 357, 401
Corydalis incisa, 48, 330, 359, 369, 395–396, 425, 451, 470
Corydalis repens, 48, 248, 359, 372, 394, 397, 400, 406, 476
Corydalis solida, 248, 498, 509, 518
Corydalis ternata, 48, 248, 341, 372, 395, 400, 406, 476
Corydalis turschaninovii, 48, 248, 359, 372, 395, 397, 400, 406, 476
Corydalis yanhusuo, 48, 180–181, 359, 372, 397, 400, 406, 476, 498, 509, 518
 Corydamine, 395
 Coryfolin, 395
 Corylifolinin, 395
Corylus americana, 249, 494, 501–502
Corylus avellana, 249, 494, 501–502
Corylus cornuta, 249, 494, 501–502
Corylus heterophylla, 48, 248, 361, 379, 381, 463
Corylus mandshurica, 48, 248, 361, 379, 381, 463
Corylus rostrata, 249, 501–502
 Corynantheine, 396
 Corynoline, 396
 Corynoloxin, 396
 Corynoxine, 396, 498
 Corypalline, 498
 Cosin, 396
 Cosmosiin, 396
 Costene, 396
 Costol, 396
 Costulactone, 396
 Costunolide, 396
Costus speciosus, 49, 328, 366, 395, 405, 478
Cotinus coggyria, 49, 338, 415, 443
Cotyledon fimbriatum, 49, 363
Cotyledon malacophylla, 49, 363
 Coumaric acid, 396, 498
 Coumarin, 396, 498
 Coumarin derivatives, 498
 Coumaroylquinic acid, 396
 Coumesterol, 396, 499
 Crataegol acid, 396
 Crataegolic acid, 396

- Crataegus acid*, 499
Crataegus chloruscarca, 49, 249, 350, 395–396, 400, 413, 423, 431, 438, 480
Crataegus cuneata, 49, 249, 391, 395–396, 400, 413, 423, 431, 438, 480
Crataegus laevigata, 249, 395–396, 491, 498–499, 519–520, 525, 527
Crataegus maximowiczii, 49, 249, 350, 395, 400, 413, 423, 431, 438, 480
Crataegus monogyna, 249, 491, 498–499, 501, 503, 515, 518–520, 525, 527
Crataegus oxyacantha, 249, 491, 498–499, 501, 503, 515, 518–520, 525, 527
Crataegus pentagyna, 49, 249, 350, 395, 400, 438, 480
Crataegus pinnatifida, 49, 249, 350, 395, 400, 438, 480
Crataegus sanguinea, 49, 249, 350, 395, 400, 438, 480
 Creosol, 499
 Cresols, 499
 Crocetin, 396
 Crocetin di-glucose ester, 396
 Crocetin geniobiose glucose ester, 396
 Crocine glycosides, 499
Crocus sativus, 49, 181, 351, 396, 436, 494, 499, 517, 520
Crotalaria mucronata, 49, 362, 442, 446, 463, 480, 483
Crotalaria sessiliflora, 49, 359, 442
 Crotin, 397
Croton cascarilloides, 50, 326, 397, 454
 Croton oil, 499
 Croton resin, 397
Croton tiglium, 181, 326, 397, 454, 499
 Crotonic acid, 397
 Crotonoside, 397
 Crude fiber, 499
 Crybulbine, 397
 Cryptone, 397
 Cryptopine, 397
 Cryptotaenen, 397
Cryptotaenia canadensis, 50, 181, 358, 397, 427, 429, 441, 476, 478, 529
Cryptotaenia japonica, 50, 181, 338, 397, 427, 429, 441, 476, 478, 491, 498, 506, 513, 516
 Cryptotanshinone, 397
 Cryptoxanthin, 397
 Crytomeridiol, 397
 Crytoxanthin, 397
 Cu Fei (Taiwan), 331
 Cubebin, 397, 499
Cucumis melo, 50, 335, 397, 439
Cucumis sativus, 50, 182, 337, 366, 378, 427, 438, 510, 514
Cucurbita maxima, 249, 514
Cucurbita moschata, 50, 249, 346
Cucurbita pepo, 50, 346
 Cucurbitacin B, 397
 Cucurbitacin E, 397
 Cucurbitacins, 397, 499
 Cucurbitine, 397
 Cuercetin, 397
 Cui Que, 331
 Cumaldehyde, 397
 Cumaric acid, 397
 Cumarin, 397
 Cumic alcohol, 397
 Cuminic aldehyde, 397
 Cumulene, 397
Cunninghamia lanceolata, 50, 353, 387, 392, 453, 476
 Curcasin, 397
 Curcin, 397
 Curcolone, 397
Curculigo capitulata, 51, 331, 462, 474
Curculigo ensifolia, 51, 357, 462
Curculigo malabarica, 51, 357, 462
Curculigo orchiodes, 51, 357, 462
Curculigo stans, 51, 357, 462
Curcuma aromatica, 51, 182, 360, 366, 397–398, 405, 415, 484–485, 501
Curcuma domestica, 51, 398
Curcuma kwangsiensis, 51, 366, 397–398, 405, 415, 484–485
Curcuma longa, 51, 182, 360, 397, 405, 415, 468, 527, 529
Curcuma pallida, 51, 333, 419, 462, 483, 485
Curcuma phaeocoulis, 51, 347, 419, 462, 483, 485
Curcuma zedoaria, 51, 356, 366, 398, 405, 415, 485
 Curcumin, 397
 Curcuminoids diferuloylmethane, 397
 Curcumol, 397
 Curdione, 398
 Curmarin, 398
 Curzenene, 398
 Curzerenone, 398
Cuscuta australis, 51, 249, 332, 372, 389, 474
Cuscuta chinensis, 52, 183, 249, 355, 374, 381, 383, 398, 493, 503, 507
Cuscuta epithymum, 250, 493, 503, 507
Cuscuta europaea, 52, 249, 355, 374, 381, 383, 398
Cuscuta japonica, 52, 249, 355, 374, 381, 383, 398
Cuscuta lupuliformis, 52, 249, 355, 374, 381, 383, 398

Cuscutalin, 398
 Cuscutin, 398
 Custeodysine, 398
 Cutins, 499
 Cyandidin-3-sophoroside, 398
 Cyanic acid, 398
 Cyanide, 398, 499
 Cyanidin, 499
 Cyanidin-3-gentiobioside, 398
 Cyanidin-3-glucoside, 398
 Cyanidin-3-monogalactoside, 398
 Cyanidin-3-rutinoside, 398
 Cyanin, 398
 Cyanogenic glycosides, 398, 499
 Cysterone, 398
Cyathula prostrate, 52, 328, 407
Cycas revoluta, 52, 355, 374, 421, 471
 Cyclanoline, 398
 Cycloarternol, 398
 Cycloastrangenol, 398
 Cycloencalenol, 398
 Cyclomonerviol, 398
 Cyclomulberrochromene, 398
 Cyclonerviol, 398
 Cycloprotobuxamines, 399
 Cycloprotobuxines, 399
 Cycloshikonin, 399
 Cyclovirobuxine D, 399
 Cyclovivobuxine C, 399
Cydonia oblonga, 250, 491, 499, 502, 515
Cydonia sinensis, 52, 250, 358, 422, 437
 Cyldrin, 399
 Cylon Rou Gui, 331
 Cymarin, 399, 499
 Cymarol, 399
Cymbidium hyacinthinum, 52, 326, 418
Cymbidium striatum, 52, 326, 418
Cymbopogon citratus, 52, 183, 250, 374, 388, 393, 401, 412, 417, 441, 445, 497, 529
Cymbopogon distans, 53, 250, 361
Cymbopogon goeringii, 53, 250, 361
Cymbopogon martinii, 250, 497, 529
Cymbopogon nardus, 53, 183, 250, 357, 497
Cymbopogon winterianus, 250, 497, 529
 Cymbopogonol, 399
 Cymene, 399, 499
 Cynanchin, 399
 Cynanchocerin, 399
 Cynanchol, 399
Cynanchum atratum, 53, 327, 399
Cynanchum auriculatum, 53, 399
Cynanchum japonicum, 53, 326
Cynanchum paniculatum, 53, 358, 401, 451, 467
 Cynarin, 399

Cynaroside, 499
Cynodon dactylon, 53, 355, 383
Cynoglossum divaricatum, 53, 250, 333, 458
Cynoglossum officinale, 250
Cynomorium coccineum, 53, 353, 376, 383, 389, 444, 473
Cynomorium songaricum, 53, 353, 376, 383, 389, 444, 473
 Cyperoone, 399
Cyperus brevifolius, 54, 251, 372–373, 383, 475, 502
Cyperus difformis, 54, 251, 349, 372–373, 383, 475
Cyperus esculentus, 251, 502
Cyperus glomeratus, 54, 251, 349, 372–373, 383, 475
Cyperus iria, 54, 349, 372–373, 383, 475
Cyperus rotundus, 54, 183, 251, 357, 372, 383, 399, 430, 448, 452, 464, 468, 475
 Cypripedin, 499
Cypripedium calceolus, 251, 499, 504, 524
Cypripedium guttatum, 54, 251, 350
Cypripedium macranthum, 54, 251, 350
Cypripedium pariflorum, 251, 499, 504, 524
Cypripedium pubescens, 54
 Cyrtomin, 399
Cyrtomium falcatum, 54, 379, 399, 413, 427
 Cysteic acid, 399
 Cysteine, 399
 Cystine, 399
 Cytisine, 399
Cytisus scoparius, 54, 183, 340, 467, 471, 502, 521–522
 Cytochrome C, 399
 Cytokinin, 399

D

Da Dou, 331
 Da Fei Yang Cao, 331
 Da Feng Zi, 331
 Da Hua Tian Qing, 331
 Da Ji, 331
 Da Ji Ru Zi Shu, 331
 Da Ma Ren, 331
 Da Qing, 331
 Da Qing Ye, 331
 Da Ri Jian Cao, 331
 Da Suan, 331
 Da Wan Hua, 331
 Da Xian Mao, 331
 Da Xian Ye Shu, 331
 Da Ye An, 331

- d-abscisin, 399
 Daechu alkaloids, 401
Daemonorops draco, 54, 358, 374, 380, 462
Daemonorops margaritae, 55, 338, 380, 406
 Daidzein, 401, 499
 Daidzin, 401, 499
 Dammaranediol, 499
 Dan Gui, 331
 Dan Ye Mu Jing, 331
 Dan Ye Xiz Zhu, 331
 Dan Zhu Ye, 331
 Dao Dou, 331
Daphne fortunei, 55, 251, 361, 366, 377, 416, 423, 484
Daphne genkwa, 184, 251, 361, 366, 377, 416, 423, 484, 499, 512–513
Daphne giraldii, 55, 251, 363, 401
Daphne gurakduu, 55, 363, 401
Daphne koreana, 55, 251, 329
Daphne mezereum, 251, 499, 512–513
Daphne retusa, 55, 363, 401
Daphne tangutica, 55, 363, 401
 Daphnetin, 401
 Daphnetoxin, 499
Daphnidium myrrha, 55, 357
Daphnidium strychnifolius, 55, 357
 Daphnoretin, 401
 d-apiose, 399
 Dasycarponin, 499
Datura alba, 55, 344, 401, 423, 467
Datura fastuosa, 55, 344, 401, 423, 467
Datura innoxia, 55, 184, 344, 401, 423, 467, 498, 503, 507, 529
Datura metel, 55, 184, 344, 401, 423, 467, 498, 503, 507, 529
Datura stramonium, 55, 184, 344, 401, 423, 467, 498, 503, 507, 529
Datura suaveolens, 55, 349, 376, 379, 431, 467
Datura tatula, 55, 344, 423
 Daturodiol, 401
 Daturolone, 401
 Daucine, 401
 Daucol, 401
 Daucosterin, 401
 Daucosterol, 401
Daucus carota, 56, 184, 346, 373, 379, 384, 387, 389, 393, 401, 417, 453, 460, 496, 510, 514, 517, 526, 528
 Dauricine, 401, 500
 Dauricinoline, 401
 Dauricoline, 401, 500
 d-backuchiol, 399
 d-borneol, 399, 499
 d-camphene, 499
 d-camphor, 399
 d-carvone, 399
 d-catechin, 400
 d-catechol, 400
 d-corydaline, 400
 Deacetylfaucetene, 401
 Deacylcynanchogenin, 401
 Deacetylmetaplexigenin, 401
 Deanolic acid, 500
 Deaspidin, 401
 Debilic acid, 401
 Decalactone, 401
 Decanal, 401
 Decanol, 402
 Decanoylacetaldehyde, 402
 Decuroside, 402
 Decursidin, 402
 Decursin, 402
 Decussatin, 402
 Decylic aldehyde, 402
 Degueline, 402, 500
 Dehydroandrographolide, 402
 Dehydrocorydaline, 402
 Dehydrocorydalmine, 402
 Dehydroevodiamine, 402
 Dehydrofukinone, 500
 Dehydromatricaria, 402
 Dehydromatricaria ester, 402
 Dehydrosilybin, 402
 Dehydrosoyasaponin, 500
Delonix regia, 56, 333, 371, 419
 Delphinidin, 402, 500
 Delphinidin-3,5-diglucoside, 402, 500
 Delphinidin-3-monoglucoside, 402
Delphinium grandiflorum, 56, 331, 441
 Delta-3-carene, 402
 Delta-limonene, 500
 Delta-linalool, 500
 Demethylcephalotaxine, 402
 Demethyl-coclaurine, 402
 Demethylpsychotrin, 402
 Demethyl-tubulosine, 402
 Demethylwedolactone, 402
 Dencichine, 402
 Dendrobine, 402
Dendrobium nobile, 56, 351, 402
 Dendrolasin, 500
 Deng Qing Cao, 332
 Deng Tai Ye, 332
 Deoxyandrographolide, 402
 Deoxyelephantopin, 403
 Deoxypodophyllotoxin, 403
 Deoxysantalol, 403
 Deoxyschizandrin, 403
 Deoxytubulosine, 403
 Dephenyl methane-2-carboxylic acid, 403

- Desacetylasperuloside, 403
 Desacetylmaticarin, 403
Desmodium gangeticum, 252, 489
Desmodium microphyllum, 56, 251, 353, 429
Desmodium pulehellum, 56, 251, 346, 446
Desmodium triflorum, 56, 252, 348, 458, 469
Desmodium triquetrum, 56, 252, 337, 458, 469
 des-O-methyl-licaraine, 403
 Desoxypodophyllotoxin, 403
 Dextrose, 403
 d-fenchone, 400
 d-fructose, 400
 d-galactose, 400
 d-galacturonic acid, 400
 d-gallocatechol, 400
 d-glucaric acid, 400
 d-glucose, 400
 d-guereitol, 400
 Di Dan Tou, 332
 Di Ding Zi Jing, 332
 Di Er Cao, 332
 Di Gu Pi, 332
 Di Huang, 332
 Di Jiao, 332
 Di Jin, 332
 Di Jin Cao, 332
 Di Yu, 332
 Diacetate, 403
 Diacetyl-atractylodioid, 403
 Diadzein, 500
 Diadzin-4,7-diglucoside, 403
 Diallyl disulfide, 403, 500
 Diallyl sulfide, 403
 Diallyl trisulfide, 500
 Dianthrone glucosides, 403, 500
 Dianthronic heteroside, 403
Dianthus barbatus, 57, 252, 348, 403, 411
Dianthus caryophyllus, 252, 493, 502
Dianthus oreadam, 57, 252, 348, 403, 411
Dianthus saponin, 403
Dianthus superbus, 57, 252, 348, 403, 411
 Diastase, 500
 Dibilone, 403
 Dicafeoxylquinic acid, 403
 Dichrins, 403
Dichroa cyanitis, 57, 329, 367, 403
Dichroa febrifuga, 7, 57, 329, 367, 403
Dichroa latifolia, 57, 329, 367
 Dichroidine, 403
 Dichroines, 403
 Dicoumarol, 403, 500
Dicranopteris linearis, 57, 344, 370, 420, 447, 461
 Dictamine, 403
 Dictamnin, 500
Dictamnus albus, 57, 185, 327, 379, 381, 403, 414, 426, 434, 448, 460, 470, 478, 500–501
Dictamnus dasycarpus, 57, 379, 426, 434, 460, 470, 478
 Dicumarol, 403
 Diethyl phthalate, 403
 DiffRACTAIC acid, 403
 Digeneaside, 404
 Digicirin, 404
 Digicoside, 404
 Digifolein, 404
 Digipurin, 404
Digitalia purpurea, 57, 185, 344, 404, 417, 460, 473, 497, 500, 509, 519
Digitalia sanguinalis, 57, 344, 404, 417, 460, 473
 Digitonin, 404
 Digitoxigenin, 404
 Digitoxin, 404, 500
 Diglucoside, 404
 Digoxin, 500
 Dihydro-beta-agarofuran, 500
 Dihydroartemisinin, 404
 Dihydrobigelovin, 404
 Dihydrocarveol, 404
 Dihydrocarvone, 404
 Dihydrocycloclonervilol, 404
 Dihydrofoliamenthin, 404
 Dihydroharman, 404
 Dihydroisopelletierine, 404
 Dihydrokaempterol, 404
 Dihydrolycopodine, 404, 500
 Dihydrolycorine, 404
 Dihydromorin, 404
 Dihydronepetalactol, 404, 500
 Dihydro-N-methyl-isopelletierine, 404
 Dihydronuciferine, 404
 Dihydroquercetin, 404
 Dihydrosecurinine, 404
 Dihydroshikonin, 404
 Dihydrostigmast, 404
 Dihydroterpene, 404
 Dihydroxy methyl anthraquinone, 404
 Dihydroxycoumarin, 405
 Dihydroxyglutamic acid, 405
 Dilactone, 500
 Dillapiole, 405
 Dimeric indole alkaloids, 500
 Dimethoxyallylbenzene, 405
 Dimethy ether, 405
 Dimethyl thymohydroquinone, 405
 Ding Gong Teng, 332
 Ding Xian, 332
 Diogenin, 405, 500
 Diol, 405

- Diosbulbin, 405
 Diosbulbines, 405
 Dioscin, 405
Dioscorea batatus, 57, 185, 352, 372, 378, 455, 523
Dioscorea bulbifera, 58, 338, 383, 387, 405, 425, 466
Dioscorea cirrhosa, 58, 352, 442
Dioscorea hispida, 58, 352, 442
Dioscorea japonica, 58, 352, 442
Dioscorea nipponica, 58, 330, 366, 405, 479
Dioscorea opposita, 58, 185, 350, 372, 378, 391, 470, 500, 518, 521, 523
 Dioscorecin, 405
 Dioscoretoxin, 405
 Diosgenin, 405
 Diosgenin glycoside, 405
 Diosmetin-7-glucoside, 405
 Diosmin, 405
Diospyros chinensis, 58, 352, 368, 384
Diospyros costata, 58, 352, 368, 384
Diospyros kaki, 58, 352, 368, 384
Diospyros lotus, 58, 352, 368, 384
Diospyros roxburgii, 58, 352, 368, 384
 Dioxybenzoic acid, 405
 Dioxyflavonol, 405
 Dipalmitin, 405
 di-p-coumaroylmethane, 403
 Dipentene, 405, 500
 Diploptene, 405
Dipsacus asper, 58, 252, 358, 371, 489, 501
Dipsacus fullonum, 252, 507, 521
 Disinomenine, 405
 d-isochondrodendrine, 400
 Disulphides, 500
 Diterpene acids, 501
 Diterpene jatrophone, 501
 Diterpenes, 405, 501
 Diterpenoids, 405
 Divaricoside, 405
 dl-anabasine, 405
 dl-beheerine, 406
 dl-borneol, 406
 dl-catechol, 406
 dl-curine, 406
 d-limonene, 400
 dl-methylisopelletierine, 406
 dl-N-noramepavine, 406
 dl-tetrahydropalmatine, 406
 dl-tetrandrine, 406
 d-lupaine, 400
 d-mannitol, 400
 d-mannose, 400
 d-matrine, 400
 d-menthone, 400
 d-N-methylpseudoephedrine, 400
 Do Xing Cao, 332
 Dodecen-4-oiic acid, 406
 Dodium, 501
Dodonaea viscosa, 58, 185–186, 329, 371, 418, 462, 474
Dolichos lablab, 59, 252, 326, 378, 418, 424, 437, 479
Dolichos pruriens, 252
 Domesticine, 406
 Don Gua, 332
 Dong Chong Xia Chao, 332
 Dong Kui Zi, 332
 Dong Ling Cao, 332
 Dong San Hu, 332
 Dong Seng, 332
 Donoxime, 406
 Dotriaccontanol, 406
 Dou Kou, 332
 Dou Tu Si, 332
 Douminidine, 406
 d-oxymatrine, 400
 d-pinene, 400
 d-pseudoephedrine, 499
 d-pseudoephedrinem, 400
Draba nemorosa, 59, 355, 372
Draceana graminifolia, 59, 344, 442
 Dracoalban, 406
Dracocephalum integrifolium, 59, 348, 413
 Dracoresene, 406
 Dracoresinotannol, 406
 Dracorhodin, 406
 Dracorubin, 406
 d-raffinose, 400
Drosera anglica, 59, 345, 393, 437
Drosera burmannii, 59, 345, 393
Drosera rotundifolia, 59, 186, 345, 393, 501, 514, 529
 Drug interactions, 3
Dryobalanops aromatica, 59, 186, 343, 387, 468, 476, 495, 499
Dryobalanops camphora, 59, 343, 387, 468, 476
 Dryocrassin, 406
Dryopteris crassirhizoma, 59, 253, 335, 370, 413
Dryopteris filix-mas, 59, 186, 253, 370, 401, 405, 413, 449, 451, 462, 489, 514
Dryopteris laeta, 59, 253, 345, 370, 401, 405, 413, 449, 451, 462
 d-sesamine, 400
 d-sophoranol, 400
 d-stachyose, 401
 d-terpineol, 401
 d-tetrahydropalmatine, 401
 d-tetrandrine, 401
 Du Jing Sha, 332

Du Zhong, 332
 Duan Geng Ren Dong, 333
 Duan Geng Wu Jia, 333
 Duan Xue Liu, 333
Duchesnea indica, 60, 351, 407, 483
 Dui Ye Dou, 333
 Dulcilone, 406
 Dulciol, 406
 Dulcite, 406
 Dulcitol, 406
 d-USnic acid, 499
 d-verbascose, 401
 d-xylose, 401
 Dydimin, 406
Dysosoma pleiantha, 60, 346, 379, 403, 410, 423, 457

E

E Zhu, 333
 Ebelin lactone, 406
 Eburicoic acid, 406
 Ecdysone, 406
 Ecdysones cyasterone, 406
 Ecdysterone, 407, 501
 Ecgonine, 407, 501
 Echinocoside, 407
 Echinocystic acid, 407
 Echinopanacene, 407
 Echinopanacol, 407
Echinops dahuricus, 60, 343, 407
Echinops gmelini, 60, 343, 407
Echinops grijsii, 60, 343, 407
Echinops latifolius, 60, 407
Echinops sphacrocephalus, 60, 343, 407
 Echinopsine, 407
 Echitamidine, 407
 Echitamine, 407
Eclipta alba, 60, 186, 371, 407, 446, 490, 501, 521
Eclipta erecta, 60, 345, 374, 381, 407, 446, 466, 472, 483
Eclipta marginata, 60, 334, 371, 407, 446
Eclipta prostrata, 60, 186, 334, 371, 446, 490, 501, 521
Eclipta thermalis, 60, 334, 371
 Ecliptine, 407, 501
 Eicosanoic acid, 407
 Eicosenic acid, 407
 Eikosanol, 407
 Eissampeline, 407
Elaeagnus formosana, 60, 337
Elaeagnus glabra, 61, 354, 374
Elaeagnus oldhumii, 61, 360, 378, 443, 470

Elaeagnus pungens, 61, 366, 389, 404, 408, 445, 476
Elaeagnus umbellata, 61, 337, 366, 404, 408, 445, 476
 Elaeocarpid, 407
 Elegic acid, 407
 Elemene, 407
 Elemicin, 407
 Elephantin, 407
 Elephantopin, 407
Elephantopus elatus, 61, 332, 435, 466
Elephantopus grandiflorus, 61, 466
Elephantopus molis, 61, 344, 403, 407, 426, 466
Elephantopus scaber, 61, 354, 384, 466
Elettaria cardamomum, 62, 187, 360, 373, 387, 393, 400, 406, 434, 464, 476, 495, 502, 506, 520, 525
Eleutherococcus senticosus, 62, 187, 331, 383, 407, 431, 473, 498, 501, 505, 508, 510, 515, 519
 Eleutherosides, 407, 501
 Elixen, 501
 Ellagic acid, 407, 501
 Ellagitannins, 501
Elsholtzia argyi, 62, 357, 407, 415, 475
Elsholtzia cristata, 62, 357, 407, 415, 475
Elsholtzia feddei, 62, 357, 407, 415, 475
 Elsholtzia ketone, 407
Elsholtzia souliei, 62, 357, 407, 475
Elsholtzia splendens, 62, 415, 475
 Elsholtzianic acid, 407
 Emetic, 501
 Emetine, 407
Emilia sonchifolia, 62, 362, 371
 Emilsin-like enzyme, 407
 Emodin, 407, 501
 Emodin methyl ester, 408
 Emodin-monomethylether, 408
 Emulsin, 501
Entada phaseoloides, 62, 187, 335, 408
 Entageric acid, 408
 Enzymes, 501
Ephedra distachya, 63, 187, 253, 344, 400, 408, 431, 441, 447, 489, 499, 501, 509
Ephedra equisetina, 63, 253, 344, 400, 408, 441, 447
Ephedra intermedia, 63, 253, 344, 400, 408, 441, 447
Ephedra monosperma, 63, 253, 344, 400, 408, 441
Ephedra nevadensis, 253, 400, 499, 509
Ephedra sinica, 63, 188, 253, 344, 441, 499, 501–502, 509, 518, 521, 529
 Ephedrine, 408, 501
 Epiafzalechin, 501

- Epialisol A, 408
 Epibrassicasterol, 408
 Epicatechin, 408, 501
 Epicatechin gallate, 408
 Epicephalotaxin, 408
 Epicephalotaxine, 408
Epidendrum monile, 63, 351
Epidendrum striatum, 63, 326
Epidendrum tuberosum, 63, 326
 Epifriedelanol, 408
 Epifriedelin, 408
 Epigallocatechin, 408, 501
Epilobium amurense, 63, 253, 343
Epilobium angustifolium, 253, 488, 513
Epilobium hirsutum, 63, 253, 343
Epilobium palustre, 63, 253, 343
Epilobium parviflorum, 253, 504
Epilobium tanguticum, 63
Epimedium brevicorum, 63, 253, 340, 424, 430
Epimedium koreanum, 63, 253, 340, 424, 430
Epimedium macranthum, 63, 253, 340, 424
Epimedium sagittatum, 253
Epimedium tanguticum, 253
 Epimedeside A, 408
 Epistephanine, 408
 Epiwilsonine, 408
 Epoxyquaine, 408
 Equisetonin, 408
 Equisetrin, 408
Equisetum arvense, 63, 188, 345, 366, 378–379, 408, 419, 421, 427, 451, 457, 501, 522
Equisetum hyemale, 63, 188, 345, 366, 378–379, 408, 419, 421, 427, 451, 457, 503, 522
Equisetum ramosissimum, 63, 345, 366, 378–379, 408, 419, 421, 427, 451, 457
 Equisitine, 501
 Er Cha, 333
 Eremophilene, 408
 Ergostatetraen, 408
 Ergosterol, 408
 Ergosterol peroxide, 408
 Ericolin, 408
 Erigeron, 408
Erigeron annuus, 64, 359, 402, 421, 432, 439, 441, 474, 476
Erigeron canadensis, 64, 188–189, 329, 402, 421, 432, 439, 441, 474, 476, 503, 510, 524–525
Eriobotrya japonica, 64, 189, 347, 375, 393, 397, 433, 454, 475, 502
Eriocaulon buegerianum, 64
Eriocaulon sieboldianum, 64, 341
 Erisin, 408
 Erpinene, 408
 Erucic acid, 409
 Erycbelline, 409
 Erychroside, 409
Erycibe aenea, 64, 409, 467
Erycibe henryi, 64, 332, 409, 467
 Erysimosol, 409
 Erysimotoxin, 409
Erysimum amurense, 64, 254, 354, 388, 409, 420
Erysimum cheiranthoides, 64, 254, 354, 388, 409, 420
Erysimum officinale, 254
Erythroxylum coca, 65, 189, 335, 374, 381, 383, 407, 493, 497–498, 501, 512
Erythrina centaurium, 254, 521
Erythrina corallodendron, 64, 254, 349, 371
Erythrina indica, 64, 254, 335, 371
Erythrina variegata, 64, 254, 335, 371
 Erythriside, 409
 Escigenin, 409
 Esculetin, 409, 501
 Esculetin dimethyl ether, 409
 Esgoside, 409
 Essential oils, 409–410, 501
 Estragol, 410, 501
 Estragole, 410, 501
 Ethanol, 410
 Ether oils, 410
 Ethoxychelerythrine, 410
 Ethoxysanguinarine, 410
 Ethyl alcohol, 410
 Ethyl beta-fructopyranoside, 410
 Ethyl cinnamate, 501
 Ethyl ester, 410
 Ethyl-p-methoxycinnamate, 502
 Etoposide, 410
 Eucalptole, 410, 502
 Eucalyptol, 410, 502
Eucalyptus citriodora, 254, 495, 497–498, 502, 504, 507, 523, 527
Eucalyptus globulus, 254, 495, 497–498, 502, 504, 507, 523, 527
Eucalyptus robusta, 65, 254, 331, 477
Euchresta japonicum, 65, 350, 366, 410
 Euchrestaflavanones, 410
Eucommia ulmoides, 65, 332, 456
 Eudesnol, 410
 Eugenol, 502
Eugenia aromatica, 65, 332, 369, 372, 390, 407, 411, 422, 426, 429, 437, 463, 479, 484
Eugenia caryophyllata, 65, 189, 332, 369, 372, 407, 411, 422, 426, 429, 437, 463, 479, 484, 502, 505, 522

Eugenia ulmoides, 65, 332, 369, 372, 407, 411, 422, 426, 437, 463, 479, 484
 Eugenitin, 411
 Eugenol, 411, 502
 Eugianin, 411
Euonymus alatus, 65, 254, 356, 370, 406, 412, 414, 429, 462, 469, 483
Euonymus atropurpureus, 254, 492, 496
Euonymus bungeanus, 65, 254, 356, 370, 406, 429, 462, 469, 483
Euonymus maackii, 65, 254, 356, 370, 406, 462, 469, 483
 Eupafolin, 411
 Eupafolin polysaccarides, 502
 Eupaformonin, 411
 Eupaformosanin, 411
 Euparin, 411
 Eupatol, 411
 Eupatolide, 411
Eupatorium chinense, 66, 255, 362, 405, 411, 447, 463, 483
Eupatorium formosanum, 66, 255, 346, 396, 411, 442, 452, 469
Eupatorium japonicum, 66, 255, 405, 447, 463, 483
Eupatorium lindleyanum, 66, 255, 362, 405, 411, 447, 463, 483
Eupatorium odoratum, 66, 255, 347, 376, 378, 381, 435, 465
Eupatorium perfoliatum, 255, 501–502, 523
 Euphol, 411
 Euphorbetin, 411
Euphorbia antiquorum, 66, 338, 373, 381, 411
Euphorbia coraroides, 66, 331, 411, 482
Euphorbia esula, 67, 361, 453, 478
Euphorbia helioscopia, 67, 332, 453, 478
Euphorbia hirta, 67, 189, 331, 391, 433, 461, 489, 497, 522
Euphorbia humifusa, 67, 332
Euphorbia kansui, 67, 347, 373, 478
Euphorbia lasiocaula, 66, 331, 482
Euphorbia lathyris, 67, 190, 358, 368, 370, 384, 401, 409, 411, 432, 502
Euphorbia lucorum, 67, 368, 370, 384, 409, 411, 432
Euphorbia lunulata, 66, 331, 482
Euphorbia pallasii, 66, 331, 411, 482
Euphorbia pekinensis, 66, 331, 411, 482
Euphorbia resinifera, 67, 331, 368, 370, 384, 409, 411, 432
Euphorbia sampsoni, 66, 331, 411, 482
Euphorbia sieboldiana, 66, 331, 411
Euphorbia thymifolia, 67, 358, 368, 370, 384, 409, 432
 Euphorbias, 411

Euphorbiasteroid, 411
 Euphorbine, 411
 Euphorbol, 411
 Euphorbon, 411
 Euphorbone, 502
Euryale ferox, 67, 347
 Evocarpine, 411
Evodia lepta, 67, 349, 374
Evodia rutaecarpa, 68, 357, 371, 402, 411, 423, 434, 444, 464
Evodia triphylla, 67, 349, 374
 Evodiamine, 411
 Evodol, 411
Evonymus alatus, 68, 356
Evonymus subtriflorus, 68, 356
Evonymus thunbergianus, 68, 356
 Eycinnuik, 411

F

Fabric, 411
 Fagomine, 411
 Fagopyrin, 411
Fagopyrum cymosum, 68, 190
Fagopyrum esculentum, 68, 255, 330, 370, 397–398, 411, 422, 434, 438, 454, 458, 461, 463–464, 466, 480, 483, 494, 520
Fagopyrum sagittatum, 68, 255, 330, 397–398, 422, 434, 438, 454, 458, 461, 463, 466, 480, 483
Fagopyrum tataricum, 68, 255, 341, 464
Fagopyrum tunicum, 255, 494, 520
 Falcarindiol, 411
 Falvins, 411
 Falvonoids, 502
 Fan Lu, 333
 Fan Mu Pen, 333
 Fan Qie, 333
 Fan Shi Lui, 333
 Fan Sui Xian, 333
 Fan Tian Hua, 333
 Fan Xie Ye, 333
 Fan Xing, 333
 Fang Chi, 333
 Fang Feng, 333
 Fang Ji, 333
 Fangchinoline, 411
 Faradiol, 411
 Farnesal, 412
 Farnesene, 412
 Farnesiferols, 412
 Farnesol, 412

- Farreol, 412
 Fat, 412, 502
 Fatty acids, 412, 502
 Fatty oil, 412, 502
 Fawcetimine, 412
 Fawcetine, 412
 Febrifugin, 412
 Fei Jin Cao, 333
 Fen Fang Ji, 333
 Fenchone, 412, 502
 Feng Dou Cai, 333
 Feng Huan Mu, 333
 Feng Lee, 333
 Feng Lin Cao, 333
 Feng Lun Cai, 333
 Feng Wei Cao, 333
 Feng Xian Hua, 334
 Feng Yang, 334
 Feriol, 412
 Ferment, 502
 Fernadiene, 412
 Fernene, 412
 Fernenol, 412
 Ferric oxide, 502
Ferula assa-foetida, 68, 190, 326, 378, 412, 481, 498, 500, 505, 522
Ferula bungeana, 68, 326, 378, 412, 481
 Ferulic, 412
 Ferulic acid, 412, 502
 Feruloyl-p-coumaroylmethane, 412
 Fetidine, 413
 Fiber, 502
 Fibrallactone, 413
 Fibramine, 413
 Fibraminine, 413
Fibraurea recisa, 68, 338, 413, 428, 472
Ficus awkeotsang, 69, 326, 412, 418–419, 462
Ficus carica, 69, 190–191, 356, 375, 381, 390, 413, 419, 435, 448, 451–452, 460–461, 463, 501, 503, 505, 528
Ficus inicrocarpa, 69, 348
Ficus pumila, 69, 328
 Ficusin, 413
 Filicenol, 413
 Filicene, 413
 Filicic acid, 413
 Filicin, 413, 502
 Filmarone, 413
 Finitin, 413
Firmiana simplex, 69, 357, 381, 383, 421, 435, 448, 464
 Fisetin, 413
Flagellaria indica, 69, 338, 371
 Flavanones, 502
 Flavaspidic acids, 413
 Flavaspidin, 413
 Flavocommelin, 413
 Flavon glucoside, 413, 502
 Flavone, 413, 502
 Flavonlignans, 502
 Flavonoid derivatives, 413
 Flavonoid glycosides, 413, 503
 Flavonoids, 413, 503
 Flavonols, 503
 Flavoxanthin, 414
 Flavoyadorinin, 414
 Fluggein, 414
 Fo Jia Cao, 334
 Fo Jia Cao (Taiwan), 334
Foeniculum officinale, 69, 358, 375–376, 400
Foeniculum vulgare, 69, 191, 358, 375–376, 400, 502
 Foetidin, 503
 Foliamenthin, 414
 Folic acid, 503
 Folinerin, 503
 Folinic acid, 414
 Fon Xian Chi, 334
 Foo Shao Mai, 334
 Formonetin, 414
 Formononetin, 414, 503
Forsythia suspensa, 69, 191, 342, 384, 404, 464, 475, 503
 Forsythine, 503
Fortunella crassifolia, 70, 340, 418, 452, 482
Fortunella japonica, 70, 361, 418, 452, 482
Fortunella margarita, 70, 340, 418, 452, 482
Fragaria indica, 70, 255, 351
Fragaria vesca, 255, 511, 515
 Fragarine, 414
 Framine, 414
 Frangulin A, 503
 Frangulin B, 503
 Fraxin, 414
 Fraxinella, 414
Fraxinella dictamnus, 70, 327
 Fraxinellone, 414
Fraxinus americana, 256, 498, 503, 526
Fraxinus bungeana, 70, 255, 348, 370, 414
Fraxinus chinensis, 70, 255, 348, 370, 414
Fraxinus excelsior, 256, 498, 503
Fraxinus floribunda, 70, 255, 348, 370, 414
Fraxinus obovata, 70, 255, 348, 370, 414
Fraxinus ornus, 70, 191, 255–256, 348, 370, 414, 498, 503, 526
Fraxinus rhynchophylla, 70, 255, 348, 370, 414
 Friedelaun-3-ol, 414
 Friedelin, 414
Fritillaria anheunensis, 70, 328, 414, 452, 458, 460, 481

Fritillaria collicola, 70, 328, 414, 452, 458, 460, 481
Fritillaria maximowiczii, 70, 328, 414, 452, 458, 460, 481
Fritillaria roylei, 70, 328, 414, 452, 458, 460, 481
Fritillaria thunbergii, 70, 328, 414, 452, 458, 460, 481
Fritillaria ussuriensis, 70, 328, 414, 452, 481
Fritillaria verticillata, 70, 191, 328, 414, 452, 481, 489, 516
 Fritillarine, 414
 Fritilline, 414
 Fructose, 414
 Fu Ling, 334
 Fu Pen Zi, 334
 Fu Ping, 334
 Fu Rong Yie, 334
 Fu Shou Cao, 334
 Fu Zi, 334
 Fuag Ji (Japanese), 334
 Fulvoplumierin, 415
 Fumaric acid, 415, 503
 Fungal lysozyme, 415
 Furane, 415
 Furanocoumarin, 415
 Furanodiene, 415
 Furanodienone, 415
 Furanoid, 503
 Furostanol saponins, 415
 Furylisobutyl ketone, 415
 Furylmethyl ketone, 415
 Furylpropyl ketone, 415
 Fustin, 415

G

Ga Song Xiang, 334
 Galactan, 415, 504
 Galactitol, 415
 Galactomannan, 415
 Galactose, 415, 504
 Galactoside-specific lectin, 504
 Galangin, 415, 504
 Galangol, 415, 504
 Galanthamine, 415
Galium aparine, 256, 491, 507, 517, 524
Galium bungei, 70, 256, 353, 371, 460, 464
Galium spurium, 70, 256, 362, 371, 460, 464
Galium verum, 70, 191, 256, 347, 371, 460, 464, 489, 491–492, 503
 Gallic acid, 415, 504
 Gallic acid derivatives, 504
 Gallocatechin, 415, 504
 Gallotannic acid, 415
 Gallotannin, 504
 Galuteolin, 415
 Gamatin, 415
 Gambir-fluorescein, 415
 Gambirine, 416
 Gamma-aminobutyric acid, 416
 Gamma-dichroline, 416
 Gamma-fernene, 416
 Gamma-sitosterol, 416
 Gamma-terpinene, 416
 Gan Cao, 334
 Gan Lan, 334
 Gan Qi, 334
 Gan Su, 334
 Gang Ban Gui, 334
Ganoderma lucidum, 71, 342, 369, 374, 408, 415, 449, 457, 459
 Gao Ben, 334
 Gao Liang Jiang, 334
 Gao Mu, 334
 Gao Shan Liao, 335
Gardenia angusta, 71, 191–192, 350, 372, 391, 416, 419, 438, 483, 504
Gardenia florida, 71, 361, 388, 416, 469
Gardenia grandiflora, 71, 361, 416, 469
Gardenia jasminoides, 71, 361, 372, 391, 416, 419, 438, 483
Gardenia maruba, 71, 361, 469
Gardenia pictorum, 71, 361, 469
Gardenia radicans, 71, 361, 469
 Gardenin, 416
 Gardenin crocin, 504
 Gardenoside, 416
Gastrodia elata, 71, 354, 416, 481
 Gastrodin, 416
Gaultheria leucocarpa, 71, 256, 327, 441, 465
Gaultheria procumbens, 256, 512
 Gaultherin, 504
 Ge Cong, 335
 Ge Gen, 335
 Gedunin, 416
 Gein, 416
 Gelatin, 416
Gelidium amansii, 71, 256, 348, 370
Gelidium cartilagineum, 256, 489, 517
 Gelsedine, 504
 Gelsemidine, 416
 Gelsenine, 416, 504
Gelsemium sempervirens, 71, 192, 335, 406, 416, 430, 498, 504, 507
 Geniposide, 416, 504
 Genisteine, 416
 Genkwadaphnin, 416
 Genkwanin, 416

- Gentialutine, 416
Gentiana algida, 72, 343, 416, 424
Gentiana barbata, 72, 343, 416, 424
Gentiana dahurica, 72, 348
Gentiana lutea, 72, 192, 348, 504
Gentiana macrophylla, 72, 192, 348, 504
Gentiana manshurica, 72, 343, 416, 424
Gentiana olivieri, 72, 343, 416, 424
Gentiana scabra, 72, 192, 343, 424, 504
Gentiana squarrosa, 72, 343, 424
Gentiana triflora, 72, 343, 424
 Gentianidine, 416
 Gentianindine, 416, 504
 Gentianine, 416, 504
 Gentianol, 416
 Gentiatibetin, 416
 Gentiatibetine, 416
 Gentiopicroin, 416
 Gentiopicroside, 504
 Gentisic acid, 416, 504
 Geoside, 417
 Geranic, 417
 Geraniol, 417, 504
Geranium dahuricum, 72, 256, 342, 429, 473–474
Geranium eriostemon, 72, 256, 342, 429, 473–474
Geranium macrorrhizum, 256, 524
Geranium maculatum, 256, 524
Geranium robertianum, 256, 524
Geranium sibiricum, 72, 256, 342, 429, 473–474
Geranium wilfordi, 72, 256, 342, 429, 473–474
Geranium wlassowianum, 72, 342, 429, 473–474
 Geranylgeraniol, 417
 Gerariol, 417
 Germacrene, 417, 504
 Germine, 417
Geum aleppicum, 72, 192, 257, 353, 412, 416–417, 502, 516, 522, 524
Geum urbanum, 257, 497, 502, 516, 522, 524
 Giang Huo, 335
 Gibberelin, 417
 Gibberelin A₂₁, 417
 Gibberelin A₂₂, 417
 Gingerol, 417, 504
 Ginkgetin, 417, 504
Ginkgo biloba, 73, 193, 359, 375, 383–384, 399, 417, 426–427, 461, 464, 468, 488, 494, 503–504, 508, 521
 Ginkgocide A, 504
 Ginkgocide B, 504
 Ginkgocide C, 504
 Ginkgocide J, 504
 Ginkgocide M, 504
 Ginkgol, 417
 Ginkgolic acid, 417
 Ginkgolides, 417
 Ginnol, 417
 Ginsenoside R_g, 417
 Ginsenosides, 417, 505
 Gitaloxigenin, 417
 Gitaloxin, 417
 Gitanin, 417
 Gitoxigenin, 417
 Gitoxin, 417
 Givacoline, 505
 Glabralactone, 417
 Glabridin, 505
 Glaucine, 417
Glechoma hederacea, 73, 193, 340, 366, 373–374, 427, 431, 440, 503, 505, 521–522, 524
Glechoma longituba, 73, 340, 366, 373–374, 427, 431, 440
 Glechomine, 505
Gleditsia horrida, 73, 361, 377, 415, 466
Gleditsia sinensis, 73, 361, 377, 415, 466
Gleditsia xylocarpa, 73, 361, 377, 415, 466
 Gleditsin, 417
Glehnia littoralis, 73, 328, 376, 411, 415, 424, 449, 453, 457, 460, 472
 Globulin, 417, 505
 Globuline, 505
 Glucan, 417, 505
 Glucides, 418
 Glucobrassicin, 418
 Glucoevatronomonside, 418
 Glucofrangulin, 418
 Glucofrangulin A, 505
 Glucofrangulin B, 505
 Glucokinin, 418
 Glucominol, 418
 Gluconasturin, 418, 505
 Glucononitol, 418
 Glucopyranosides, 418
 Glucoquinone, 505
 Glucose, 418, 505
 Glucoside apocynamarin, 505
 Glucoside asiaticoside, 418
 Glucoside morindin, 418
 Glucosides, 418
 Glucosinolates, 505
 Glucovanillin, 418
 Glucuronic acid, 505
 Glutamic acid, 418, 505
 Glutamine, 418, 505
 Gluten, 505
 Glutin-5-en-3-ol, 418
 Glutinin, 418
 Glycans, 505
 Glycine, 418, 505

- Glycine max*, 74, 193, 331, 401, 426, 451, 463, 477, 495, 497, 499, 502, 505, 507, 509, 517–518
Glycine soja, 74, 359, 426, 451, 463, 477
 Glycoalkaloids, 418
 Glycogen, 418
 Glycolic acid, 418
 Glycorrizin, 505
 Glycoside alkaloids, 418
 Glycoside nodakenin, 418
 Glycoside pharbitin, 418
 Glycoside raphantin, 419
 Glycosides, 419, 505
 Glycosides clerodendrin, 419
 Glycosides tribuloside, 419
 Glycosine, 419
 Glycosmine, 419
 Glycosminine, 419
Glycosmis cochinchinensis, 74, 358, 419, 470
Glycosmis pentaphylla, 74, 419, 470
 Glycyrrhetic acid, 505
 Glycyrrhiza, 419
Glycyrrhiza glabra, 257, 488, 503, 505, 524
Glycyrrhiza pallidiflora, 74, 257, 334, 370, 413, 419, 426, 435, 479
Glycyrrhiza uralensis, 74, 194, 257, 334, 370, 413, 419, 426, 435, 479, 496, 527
 Glycyrrhizic acid, 419
 Glycyrrhizin, 419, 505
 Glypenosides, 419
Gnaphalium affine, 74, 352, 388, 412, 462
Gnaphalium arenarium, 74, 352, 388, 462
Gnaphalium confusum, 74, 352, 388, 462
Gnaphalium javanum, 74, 352, 462
Gnaphalium luteo-album, 74, 352, 462
Gnaphalium multiceps, 74, 352, 462
Gnaphalium ramigerum, 74, 352, 462
Gnaphalium tranzschelii, 74, 352, 462
Gnaphalium uliginosum, 74, 194, 352, 524
 Gobosterin, 419
Gomphrena globosa, 75, 347, 374, 383, 425
 Gomphrenin, 419
 Gong Chong, 335
 Gong Lao Mu, 335
 Gong Xian Teng, 335
 Gorlic acid, 419
 Gossypetin, 419, 505
 Gossypin-3-sulfate, 505
 Gossypitrin, 419
Gossypium herbaceum, 75, 194, 345, 368, 370, 421, 440, 505
 Gossypol, 419, 505
 Gou Gi, 335
 Gou Gu, 335
 Gou Ji Guan Zhong, 335
 Gou Ma, 335
 Gou Mei, 335
 Gou Min, 335
 Gou Shi Cao, 335
 Gou Teng, 335
 Gramme, 505
 Graveobiosides, 419
 Grayanotoxin, 419
 Gu Dong Zi, 335
 Gua Di, 335
 Gua Lou, 335
 Guaiacol, 419
 Guaiaxulene, 419
 Guaijaverin, 419
 Guan Ye Lean Qiao, 335
 Guan Zhong, 335
 Guang Feng Lun Cai, 335
 Guardine, 505
 Guercitrin, 419
 Guggulsterol, 419
 Gui Hua, 335
 Gui Zhi, 335
 Guijaverin, 419
 Gum, 419, 505
 Guo Gang Long, 335
 Guo Ko Yi, 335
 Guo Tan Loan, 335
 Gurjuncene, 419
 Guvacine, 419, 506
 Guvacoline, 420
Gynostemma pentaphyllum, 75, 341, 451
Gynura bicolor, 75, 345
Gynura japonica, 75, 349, 465
Gynura pinnatifida, 75, 349, 465
Gynura segetum, 75, 349, 465
 Gypsogenin, 420

H

- Haemanthidien, 420
Haemanthus multiflorus, 75, 338, 420
 Haementhamine, 420
 Haemolytic sapogenin, 420
 Hai Dai, 335
 Hai Jin Sha Teng, 335
 Hai Tong Pi, 335
 Hai Zao, 335
 Han Cai, 336
 Han Mai Bin Cao, 336
 Han Xiao Hua, 336
 Han Xiou Cao, 336
 Han Xiou Cao (American), 336
 Harman, 420

- Harmane, 420
 Harmine, 420
 Harmol, 420
 Harpagide, 506
 Harpagoside, 420, 506
 Harringtonine, 420
 Havonoids, 506
 Hayatidine, 420
 Hayatine, 420
 Hayatinine, 420
 He Huan Pi, 336
 He Que She, 336
 He Shi, 336
 He Shou Wu, 336
 He Ye, 336
 He Zi, 336
 Hectalactone, 420
 Hederac acid, 420
Hedera helix, 257, 420, 474, 489, 494, 501, 504, 506–507
Hedera rhombea, 75, 257, 329, 420, 474
 Hederacoside B, 506
 Hederacoside C, 506
 Hederagenin, 420
 Hederasaponin B, 420
 Hederin, 420, 506
Hedychium coronarium, 76, 349, 366, 371, 429, 468
Hedyotis corymbosa, 76, 353, 430, 446
Hedyotis diffusa, 76, 327, 369, 376, 425, 450
 Hei Nan Pu Tao, 336
 Hei Shuo, 336
 Helenalin, 420, 506
 Helenien, 420
 Heliotropin, 506
 Helminthosporin, 420
 Helveticoside, 420
 Helveticosol, 420
Hemerocallis flava, 76, 337, 428, 459
 Hemigossypol, 420
 Hemin, 420
 Heneicosanic acid, 506
 Hentriacontane, 420
Hepatica asiatica, 76, 257, 357
Hepatica nobilis, 257
 Heptacosane, 420
 Heptane, 421
 Heraclein, 506
Heracleum dissectum, 77, 258, 346, 376, 381, 388, 410, 422, 442, 469
Heracleum lanatum, 77, 258, 376, 410, 422, 442, 469, 484, 501, 505–506, 523
Heracleum maximum, 258, 501, 505–506, 523
Heracleum sphondylium, 258, 501, 505–506, 523
 Herbacetin, 421
 Herbal medicine
 Chinese use of, 1–2
 description of, 1
 drug interactions, 3
 history of, 1–2
 safety of, 2–3
 Herberinecorysamine, 421
 Herclavin, 506
 Hernandezine, 421
 Hernandine, 421
 Hernandoline, 421
 Hernandolinol, 421
 Herniarin, 421, 506
 Hesperidin, 421, 506
 Heutriacontane, 421
 Hexacosanol, 421
 Hexadecenoic acid, 421, 506
 Hexahydromatricaria, 421
 Hexalactone, 421
 Hexanoic acid, 421
 Hexanol, 421
 Hexylenaldehyde, 421
 Hi Lu, 336
 Hi Tong, 336
 Hibifolin, 421
 Hibiscus acid, 506
Hibiscus chinensis, 77, 346
Hibiscus mutabilis, 77, 334, 427, 461, 464
Hibiscus rhombifolius, 77, 330, 398, 463, 477
Hibiscus rosa-sinensis, 77, 194, 362, 398, 463, 477, 492, 497, 505, 511, 513, 515, 525–526
Hibiscus sabdariffa, 77, 195, 343, 466, 497, 505, 511, 513, 515, 525
Hibiscus syriacus, 77, 346
Hibiscus trionum, 77, 346
 Hie Quin Cao, 336
Hieracium pilosella, 258, 498
Hieracium umbellatum, 77, 258, 350, 474
Hierochloe odorata, 77, 195, 345, 394, 396, 498, 509, 511
 Hin Gu Cao, 336
 Hinesol, 421
 Hinokiflavone, 421
Hippeastrum hybridum, 78, 351, 415, 436, 475
Hippophae rhamnoides, 78, 195, 349, 397, 412, 420, 427, 457, 461, 468, 496, 501–502, 518–519, 528
 Hirsuteine, 421
 Hirsutine, 421, 506
 Hirsutrin, 421
 Hispidulin, 421
 Histamine, 421
 Homoarbutin, 421
 Homoaromoline, 421

- Homoflavoyadorinin, 421
Homolycorine, 422
Homoorentin, 422
Homoorientin, 422
Homoplantagin, 422
Homoplantaginin, 422
Homoserine, 422
Homostephanoline, 422
Homotrilobine, 422
Hong Gin Tian, 336
Hong Guan Yao, 336
Hong Je Dan Hua, 336
Hong Jua, 336
Hong Ma Feng Shu, 336
Hong Mao Dan, 336
Hong Mei Xiao, 336
Hong Men Lan, 336
Hong Nan, 336
Hong Pi, 336
Hong Si Xian, 337
Hong Teng, 337
Hong Tu Cao, 337
Hopadiene, 422
Hordenine, 506
Hordeum vulgare, 78, 195, 344, 375, 403, 425, 438, 459, 482, 505–506
Hormoharringtonine, 422
Hosenkosides, 506
Hou Po, 337
Houttuyonium, 422
Houttynia cordata, 78, 361, 402, 422, 461
Hovenia dulcis, 78, 361, 406, 458
Hovenosides, 422
Hoya carnosa, 78, 360, 394, 422, 455
Hoyin, 422
Hu Chang, 337
Hu Gu Xiao, 337
Hu Hua Pi, 337
Hu Huang Lain, 337
Hu Ji Shang, 337
Hu Li Wei, 337
Hu Lu Cao, 337
Hu Tao Ren, 337
Hu Tin Chi, 337
Hu Tin Chi (Tiawan), 337
Hua Jiao, 337
Hua Qian Jin Teng, 337
Hua Shan Seng, 337
Huai Hua, 337
Huai Niu Teng, 337
Huan Hun Cao, 337
Huang Bai, 337
Huang Bai Mu, 337
Huang Gen Cao, 337
Huang Ging, 337
Huang Gua, 337
Huang Hua Jia Zhu Tao, 337
Huang Hua Xuan Cao, 337
Huang Lian, 338
Huang Lu, 338
Huang Ma, 338
Huang Qin, 338
Huang Qin (Taiwan), 338
Huang Shui Jia, 338
Huang Teng, 338
Huang Wu Tien, 338
Huang Yang (Taiwan), 338
Huang Yao Zi, 338
Huang Zhi, 338
Hui Hui Suan, 338
Hui Mao Dou, 338
Hui Qin, 338
Humulene, 422, 506
Humulus lupulus, 79, 195–196, 350, 391, 422, 426, 428, 436, 462, 490, 494, 506, 511, 523
Humulus scandens, 79, 343, 379, 391, 422, 436
Huo Ma Ren, 338
Huo Qin Hua, 338
Huo Tan Mo Cao, 338
Huo Xiang, 338
Huo Yu Jin, 338
Huong Jing, 338
Huperzine A, 422
Hydnocarpus anthelmintica, 79, 258, 331, 390, 419, 422
Hydnocarpus castaneus, 79, 258, 331, 419, 422
Hydnocarpus kurzii, 258
Hydnocarpus oil, 422
Hydrangea arborescens, 258, 499, 503, 506, 521
Hydrangea bohemicus, 259
Hydrangea macrophylla, 79, 258, 358, 412, 422
Hydrangeic acid, 422
Hydrangein, 506
Hydrangenol, 422
Hydroagarofuran, 422
Hydrocarbons, 422
Hydrociannic acid, 506
Hydrocinnamic acid, 422
Hydrocinnamic aldehyde, 422
Hydrocotylene, 422
Hydrocotyline, 506
Hydrocoumarin, 506
Hydrocyanic acid, 422, 506
Hydrogen cyanide, 422
Hydrojuglone, 506
Hydroquinone, 423, 506
Hydroxybenzoic acid, 423, 507
Hydroxycinnamic acid, 423, 507
Hydroxycoumarin, 507

- Hydroxycephalotaxine, 423
 Hydroxyevodiamine, 423
 Hydroxygenkwanin, 423
 Hydroxyleamptothecine, 423
 Hydroxypeucedanin, 423
 Hydroxyphenylethanol glycosides, 507
Hymenocallis speciosa, 79, 352, 437
 Hynocarpic acid, 423
 Hyoscyne, 423, 507
 Hyoscyamine, 423, 507
Hyoscyamus bohemicus, 79, 259, 342, 371, 391, 423
Hyoscyamus niger, 79, 196, 259, 342, 371, 507, 527
 Hyoscypierin, 423
 Hypaconitine, 423, 507
 Hypaphorine, 423
 Hypericin, 423, 507
Hypericum ascyron, 79, 332, 340, 427, 461, 467
Hypericum attenuatum, 79, 340, 427, 461, 467
Hypericum chinensis, 80, 423
Hypericum japonicum, 79, 340, 427, 461, 467
Hypericum perforatum, 79, 196, 335, 423, 427, 429, 459, 461, 467, 480, 497, 503, 507, 518
Hypericum sumpsonii, 79, 354, 427, 461, 467
Hypericum triquetrifolium, 80, 423
 Hyperin, 423
 Hyperoside, 423, 507
Hyperzia serrata, 80, 351, 422, 428
 Hypoepistephanine, 423
 Hypophyllanthin, 423
Hyssopus ocyimifolius, 80, 259, 357
Hyssopus officinalis, 259, 506, 510, 517, 524
 Hystonin, 423
- I**
- Icarine, 424
 Icarlin, 424
 Idoflavones, 507
 Ifflaionic acid, 424
Ilex aquifolium, 259, 508, 520, 527
Ilex chinensis, 80, 259, 351, 459
Ilex paraguensis, 259, 508, 520, 527
Ilex pubescens, 80, 259, 344, 367, 413, 423, 467, 483
Illicium lanacedatum, 80, 326, 376, 445, 459
Illicium verum, 80, 196, 326, 375–376, 465, 512, 520
 Ilungianins, 424
 Imidazolylothylamine, 424
Impatiens balsamina, 80, 196–197, 259, 334, 355, 412, 416, 432, 450, 467, 469, 488, 493, 506, 509, 515
Impatiens capensis, 259, 494, 509
Impatiens noli-tangere, 80, 259, 334, 355, 412, 416, 432, 450, 467, 469
Impatiens pallida, 259, 494, 509
Impatiens textori, 80, 259, 334, 355, 412, 416, 432, 450, 467, 469
Imperata arundinaceae, 81, 327, 377–378, 399, 412, 418, 469
Imperata cylindrica, 81, 327, 377–378, 399, 412, 418, 469
 Imperatorin, 424
 India Bian Teng, 338
 Indian Ren Xian, 338
 Indian Tian Qing, 338
 Indican, 424
 Indigo, 424
 Indirubin, 424
 Indo-brown, 424
 Indoid compounds, 424
 Indoxyl-5-ketogluconate, 424
 Indo-yellow, 424
 Ineole, 424
 Ingigo, 424
 Inlin, 424
 Inokosterone, 424
 Inositol, 424, 507
 Insulanoline, 424
 Insularine, 424
 Insulin-like peptide, 507
 Insulins, 424, 507
 Inteolin-7-beta-neohesperidoside, 424
Inula britannica, 81, 197, 259, 358, 384, 404, 424, 427, 475, 516, 525
Inula helenium, 260, 499, 506–507
Inula japonica, 81, 197, 259, 358, 384, 404, 424, 427, 475, 516, 525
Inula linariaefolia, 81, 358, 384, 404, 427, 475
Inula salsoloides, 81, 259, 358, 384, 404, 424, 475
 Inulicin, 424
 Inulin, 424, 507
 Inusterols, 424
 Invertase, 425
 Invertin, 425
 Iodine, 425, 507
Iphigenia indica, 81, 349, 394–395, 444, 450
Ipomoea barbata, 81, 260, 348
Ipomoea caerulea, 81, 348
Ipomoea cairica, 81, 260, 357, 443
Ipomoea hederacea, 81, 260, 348
Ipomoea purga, 260
Ipomoea triloba, 81, 260, 348
 Iridals, 507

- Iridin, 425, 507
Iridoid glycosides, 425, 507
Iridoid valepotriates, 507
Iridoidglycosides, 425
Iridoids, 507
Iridomyrmecin, 425, 507
Irigenin, 425, 507
Iris aqyatuca, 81, 260, 348, 413, 425, 475
Iris buatatas, 81, 260, 334, 413, 425, 475
Iris dichotoma, 81, 260, 350, 413, 425
Iris lactea, 81, 260, 356, 425
Iris pallasii, 82, 260, 344
Iris pseudacorus, 260, 490, 508, 513, 520
Iris versicolor, 260, 490, 508, 513, 520, 527
Irisflorentin, 425
Irisquinone, 425
Iron, 425, 507
Iron manganese, 507
Iron oxide, 425
Isatan, 425
Isatan B, 425
Isatis chinensis, 82, 260, 328, 392, 424, 429, 436, 438, 471
Isatis indigotica, 82, 260, 331, 418, 424, 440, 471
Isatis oblongata, 82, 260, 331, 418, 424, 440, 471
Isatis tinctoria, 82, 197, 261, 392, 424, 429, 436, 438, 471
Isoadiantone, 425
Isoamaranthin, 425
Isoamyl, 425
Isoanthricin, 425
Isobetanine, 425, 508
Isoborneol, 508
Isobutyl, 425
Isocaproic acid, 508
Isochaksine, 425
Isochlorogenic acid, 425
Isochondrodendrine, 425
Isocorynoline, 425
Isocorypalmine, 426
Isocryptomerin, 426
Isocryptotanshinone, 426
Iso-cucurbitacin B, 425
Isodexylephantopin, 426
Isoeugenitin, 426
Isoeugenol, 426
Isofernene, 426
Isoferulic acid, 426, 508
Isoflavone derivatives, 426
Isoflavones, 426, 508
Isoflavonoids, 508
Isofraxin, 508
Isofuranogermacrene, 426
Isoginketine, 426
Isoginketin, 508
Isoguvacine, 508
Isoharringtonine, 426
Isohomoarbutin, 426
Isohumulone, 426
Isoimperatorin, 426
Isoindigo, 426
Isoleucin, 426
Isoleucine, 426
Isoliensinine, 426
Isolinderalactone, 426
Isolinderoxide, 426
Isoliquiritigenen, 426
Isoliquiritigenin, 426
Isoliquiritin, 426
Isolobelamine, 426
Isomaculosindine, 426
Isomangiferin, 426
Isomenthone, 427, 508
Isomesityl oxide, 427
Isomyristicin, 427
Isoneomatatabiol, 427, 508
Isoorientin, 427
Isopatrinen, 427
Isopelletierine, 427
Isophthalic acid, 508
Isophytosterol, 508
Isopimpinellin, 427
Isopinocampnone, 427
Isoprebetanine, 508
Isopsorlin, 508
Isopulegone, 508
Isoquercetin, 427, 508
Isoquercitrin, 427, 508
Isoquiniline, 508
Isoquiniline alkaloids, 508
Isoquinoline, 427
Isoramanone, 427
Isorhamnetin, 427, 508
Isorhamnetin-3-mono-beta-D-glucoside, 427
Isorhynchophylline, 427, 508
Iso-rhynchophylline, 425
Isoricinoleic acid, 427
Isosafrole, 508
Isosakuranetin, 427
Isosinomenine, 427
Isosteroidal alkaloids, 427
Isotadeonal, 427
Isotalatizidine, 427
Isotetrandrine, 427
Isothalidenzine, 427
Isothamnetin, 428
Isothiocyanates, 428
Isothujene, 428
Isotrilobine, 428
Isovaleraldehyde, 428

Isovaleric acid, 428
 Isovaltrate, 508
 Isovanihyperzine A, 428
 Isovitexin, 428, 508
 Isoxanthanol, 428
 Izalpinin, 428

J

Jacoline, 508
 Jaligonic acid, 428
 Jambolin, 428
 Japan Jin Fen Ju, 338
 Japan Liu Shan, 338
 Japan Mu Fang Ji, 338
 Japan Mu Gua, 339
 Japan Niu Teng, 339
 Japan Nu Zhen, 339
 Japan She Gen Cao, 339
 Japan Su, 339
 Jasmiiflorin, 428
Jasminum grandiflorum, 261, 488, 501, 508, 527
Jasminum mesnyi, 82, 261, 360, 428, 438, 473–474
Jasminum nudiflorum, 82, 261, 360, 428, 438, 473
Jasminum officinale, 261, 488, 501, 508, 527
Jasminum samba, 82, 261, 345, 368, 376, 380, 414, 468
 Jasmipierin, 428
 Jatamansic acid, 428
Jatropha curcas, 82, 377, 397, 443, 471
Jatropha gossypifolia, 82, 197, 336, 377, 397, 443, 455, 471, 491, 499, 501, 506, 508–509, 518
Jatropha podagrica, 83, 349, 377, 381, 428, 435, 444, 464, 483
 Jatrorthizine, 428
 Je Koo Cai, 339
 Je She, 339
 Jervine, 428
 Ji Guan Hua, 339
 Ji Mu, 339
 Ji Xue Cao, 339
 Ji Xue Teng, 339
 Jia Gou Ju, 339
 Jia Mu, 339
 Jia Zhu Tao, 339
 Jian Xui Fuan Hou, 339
 Jian Zi Mu, 339
 Jiang Zhen Xiang, 339
 Jiao Cao, 339
 Jie Cai, 339
 Jie Geng, 339

Jie Gu Mu, 339
 Jin Cai, 339
 Jin Cao, 340
 Jin Chuang Xian Cao, 340
 Jin Deng Long, 340
 Jin Gan, 340
 Jin Gi Er, 340
 Jin Gu Cao, 340
 Jin He Huan, 340
 Jin Jia Dou, 340
 Jin Jing Zi, 340
 Jin Ju, 340
 Jin Moa, 340
 Jin Qian Cao, 340
 Jin Qian Chao, 340
 Jin Que Hua, 340
 Jin Si Tao, 340
 Jin Tsan Jiu, 340
 Jin Xian Diao Wu Gui, 340
 Jin Yang Huo, 340
 Jin Yin Hua, 340
 Jing Mian Cao, 340
 Jing Tian, 340
 Jing Tian San Qi, 340
 Jiu Hong, 340
 Jiu Hua, 341
 Jiu Hua Teng, 341
 Jiu Jie Cha, 341
 Jiu Jie Mu, 341
 Jiu Lan, 341
 Jiu Li Xiang, 341
 Jiu Pi, 341
 Joe Koo Lan, 341
 Ju Shi Cai, 341
 Juan Bai, 341
 Jue Ming Zi, 341
 Juglandic acid, 428
 Juglandin, 508
 Juglanin, 428
Juglans communis, 83
Juglans effusus, 83
Juglans mandshurica, 83, 337, 373, 428
Juglans regia, 197, 373, 428, 506, 508, 524
 Juglone, 508
 Jugone, 428
 Jujuboside A, 428
 Jujuboside B, 428
 Jun Zi Lian, 341
Juncus effusus, 377–378, 380, 428, 461, 479, 482
 Juniperin, 508
Juniperus communis, 261, 332, 377, 484, 495, 499, 507–508, 510, 517, 525
Juniperus horizontalis, 261, 495, 499, 507–508, 510, 517, 525

Juniperus rigida, 83, 198, 261, 355, 373, 375,
388–389, 422, 461, 476, 490, 494,
497, 501, 513, 520
Juniperus sabina, 261, 495, 499, 507–508, 510,
517, 525
Justicia adhatoda, 261, 489
Justicia gendarussa, 83, 261, 348
Justicia procumbens, 83, 261, 348
Jutrophine, 509

K

Kadsura japonica, 83, 346, 417, 428–429
Kadsurarin A, 428
Kadsuric acid, 428
Kadsurin, 429
Kaempferia galanga, 84, 198, 350, 392, 410, 495,
501–502, 513
Kaempferin, 429
Kaempferitrin, 429
Kaempferol, 429, 509
Kaempferol derivatives, 509
Kaempferol glucosides, 429
Kaempferol trisaccharide, 429
Kaempferol-3,7-diglucoside, 429
Kaempferol-3-galactoside Daempferol, 429
Kaempferol-3-glucoside, 429
Kaempferol-3-glucosylgalactoside, 429
Kaempferol-3-robinobioside, 429
Kaempferol-7-shamnoside, 429
Kaempferol-rhamno glucoside, 429
Kaempferol-rhamnoside, 429
Kansuinin, 429
Kanugin, 429
Karabin, 429
Karanjin, 429
Kaurene, 429
Kaurene derivatives, 429
Ketone, 429
Khellol, 429
Kiganen, 429
Kiganol, 429
Kino-tannic acid, 430
Ko Cho Mo, 341
Kobusone, 430
Koenigin, 509
Kong Xin Lian Zi Cao, 341
Konokiol, 430
Koo Jing Cao, 341
Korean Si Zhao Hua, 341
Korean Yan Hu Suo, 341
Korepimodoside A, 430
Korepimodoside B, 430

Koumine, 430
Kouminicine, 430
Kouminine, 430
k-strophanthin-beta, 428
Ku Dong Zi, 341
Ku Gua, 341
Ku Lian Chi, 341
Ku Lian Pi, 341
Ku Seng, 341
Ku Shu, 341
Ku Zhi, 341
Kuan Dong Hua, 341
Kuei Chen Gao, 341
Kui Shu Zi, 341
Kukoamines, 430
Kulinone, 430
Kumatakenin, 509
Kumatakinin, 430
Kun Bu, 341
Kuraridin, 430
Kurrin, 430
Kutkin, 430

L

La Lian, 341
Labdadien, 431
Labenzyme, 431
L-abrine, 430
Laburnine, 509
Lacerol, 432
Lacnophyllum, 432
Lactiflorenol, 432
Lactone, 432
Lactone protoanemonin, 509
Lactones atractylenolide II, 509
Lactones atractylenolide III, 509
Lactone-xanthatin, 432
Lactrile, 509
Lactuca indica, 84, 262, 390, 408, 452, 482
Lactuca raddeana, 84, 262, 350, 390, 408, 452,
482
Lactuca sativa, 84, 262, 390, 408, 452, 482
Lactuca serriola, 262, 498, 509
Lactucerin, 509
Lactucrol, 432
Lactucopicrin, 509
Laetrile, 509
Laggers alata, 84, 343, 374, 413
Lai Ye Sheng Ma, 341
Laminaria angusta, 84, 262, 335, 341, 371, 374,
425, 457

- Laminaria cichorioides*, 84, 335, 341, 371, 374, 425, 457
Laminaria digitata, 262, 507, 517
Laminaria japonica, 84, 262, 335, 341, 371, 374, 425, 457
Laminaria longicuris, 262, 507, 517
Laminaria longipedalis, 84, 335, 341, 371, 374, 425, 457
Laminaria religiosa, 84, 262, 335, 341, 371, 374, 457
Laminaria saccharine, 262, 507, 517
 Laminarin, 432
 Laminine, 432
 l-anagryne, 430
 Lanatoside, 509
 Lang Ba Cao, 342
 Lao Huan Cao, 342
 Lao Jium Xiu, 342
 Lapase, 432, 509
Lappa communis, 84, 346, 363, 377–378, 412, 419, 424, 462, 474
Lappa edulis, 84, 346, 363, 377–378, 419, 424, 462, 474
Lappa major, 84, 346, 363, 377–378, 419, 424, 462, 474
Lappa minor, 84, 346, 363, 377–378, 419, 424, 462, 474
 Lappaol, 432
 Lappatin, 432
 Lappine, 432
 l-arabinose, 430
 Larreagenin, 432
 l-asparagine, 509
 Latex, 432
 Lathyrol diacetate benzoate, 432
 Lathyrol diacetate nicotinate, 432
 Laudanine, 432
 Lauric acid, 432, 509
 Laurifoline, 432
 Laurotetanine, 432
 Lavoxanthin, 432
 Lawsone, 432, 509
Lawsonia inermis, 84, 198, 361, 373, 432, 498, 509, 514, 523
 Laxogenin, 432
 l-baptifoline, 430
 l-beta-santonin, 430
 l-borneol, 430
 L-cadinene, 430
 l-camphor, 430
 l-caryophyllene, 430
 l-citronellol, 430, 509
 l-cocaine, 430
 l-curcamene, 430
 l-(d)-isoleucine betaine, 430
 Lecithin, 432, 509
 Lecithine, 432
 Lectin, 509
Ledebouriella divaricata, 85, 333, 371, 449
Ledum palustre, 85, 198, 355, 373, 377, 379, 428, 461, 464, 498, 509, 514, 524
 Lei Gong Teng, 342
 Lei Wan, 342
Lemnaphyllum microphyllum, 85, 340, 399, 462
Lemna minor, 85, 199, 348, 492, 507, 511
Lemna perpusilla, 85, 348
 Lenrosine, 433
 Lenrosivine, 433
 Leonaridine, 433
 Leonticine, 509
 Leonuride, 433, 509
 Leonurin, 433, 510
 Leonurinine, 433
Leonurus cardiaca, 262, 497, 509–510, 519, 521
Leonurus heterophyllum, 85, 359, 412, 433, 471, 482
Leonurus japonicus, 85, 359, 412, 433, 471, 482
Leonurus macranthus, 85, 359, 412, 433, 471, 482
Leonurus mongolicus, 85, 359, 412, 433, 471, 482
Leonurus pseudo-macranthus, 85, 359, 433, 471, 482
Leonurus sibiricus, 85, 262, 327, 330, 433
 l-ephedrin, 431
 l-ephedrine, 431, 509
 l-epicatechin, 431
 l-epicatechol, 431
Lepidium apetalum, 85, 332, 428
Lepidium virginicum, 85, 199, 328, 428, 528
Lеспедеза cuneata, 86, 359, 456
Leucaena leucocephala, 86, 360, 433, 454
 Leucaenine, 433
 Leucanol, 433
 Leucine, 433, 510
 Leucoanthocyanin, 433
 Leucocyanidin, 433
 Leucocyanidol, 433
 Leucylphenylalanine anhydride, 433
 Levidulinase, 433
 Leviduline, 433
 Levulin, 510
 Levulose, 433
 l-homostarchydrine, 509
 l-hyoscyamine, 431
 Li Chi, 342
 Li Chun Hua, 342
 Li Lu, 342
 Li Lu (Taiwan), 342
 Li Shu, 342
 Li Tou Cao, 342
 Li Zhi Cao, 342

- Lian, 342
 Lian Qiao, 342
 Lian Zi Xin, 342
 Liang Shi, 342
 Liao Ge Wang, 342
 Lichenin, 433
 Liderane, 433
 Lie Xiang Du Juan, 342
 Liensinine, 433
 Lignan, 510
 Lignin, 433
 Lignoceric acid, 433
Ligusticum chuanzang, 86, 262, 330, 369, 380, 433, 445, 454, 476
Ligusticum japonicum, 86, 263, 339
Ligusticum jeholense, 86, 263, 334, 392
Ligusticum lucidum, 86, 199, 263, 346, 501, 516
Ligusticum pyrenacum, 86, 334
Ligusticum scoticum, 263, 501, 516
Ligusticum sinense, 86, 263, 334
Ligusticum tenuissimum, 86, 263, 334
Ligusticum vulgare, 263, 501, 516
 Ligustilide, 433, 510
 Ligustrin, 510
 Lilacin, 510
Lilium brownii, 87, 326, 394
Lilium candidum, 263, 394
Lilium concolor, 87, 263, 326, 394
Lilium dauricum, 87, 326, 394
Lilium distichum, 87, 326, 394
Lilium japonicum, 87, 263, 326, 394
Lilium lancifolium, 87, 263, 326
Lilium pumilum, 87, 263, 326
 Limonene, 433, 510
 Limonic acid, 510
 Limonin, 434
 Linalol, 434
 Linalool, 434, 510
 Linalyl acetate, 434, 510
 Linamarase, 434
 Linamarin, 434, 510
 Linaracrine, 434
 Linarezine, 434
Linaria vulgaris, 87, 199, 342, 510, 523–524
 Linarin, 434, 510
Lindera akoensis, 87, 263, 346, 413, 434, 445, 452
Lindera benzoin, 264
Lindera communis, 87, 263, 357, 412
Lindera glauca, 87, 264, 327, 389, 412
Lindera megaphylla, 87, 264, 331
Lindera obtusiloba, 88, 263, 346, 406, 432, 434, 443, 476
Lindera strychnifolia, 88, 264, 357, 426, 433–434, 445
 Linderalactone, 434
 Linderene, 434
 Linderic acid, 434
 Linderol, 434
 Linderoxide, 434
 Lindestrene, 434
 Lindestreolide, 434
 Ling, 342
 Ling Bi Long, 342
 Ling Lan, 342
 Ling Nan Huai, 342
 Ling Zhi, 342
 Linoleic acid, 434, 510
 Linolein, 435
 Linolenic acid, 435, 510
 Linoleyl acetate, 435
 Linolic acid, 435
 Linseed oil, 510
Linum stelleroides, 88, 358, 380, 407, 412, 417, 433–435, 472, 481, 483
Linum usitatissimum, 88, 199, 358, 380, 407, 412, 417, 433–435, 472, 481, 483, 510, 514
 Lipase, 435
 Lipids, 510
Liquidambar acerifolia, 88, 264, 334, 380, 387, 392, 405, 430, 475
Liquidambar formosana, 88, 264, 334, 380, 387, 392, 405, 430, 475
Liquidambar maximowiczii, 88, 264, 334, 380, 392, 405, 430, 475
Liquidambar orientalis, 264, 497, 516, 527
Liquidambar styraciflua, 264, 497, 516, 527
 Liquiritigenin, 435
 Liquiritin, 435
 Liriodenine, 435
Liriope graminifolia, 88, 344, 442
Liriope platyphylla, 88, 344, 442
Liriope spicata, 88, 344
Litchi chinensis, 89, 342, 370, 374, 378–379, 418, 433, 458, 468, 481–482
 Lithospermic acid, 510
 Lithospermin, 435
Lithospermum erythrorhizon, 89, 200, 362, 369, 371, 399, 461, 469, 510
Lithospermum officinale, 200, 510
Lithospermum officinalis, 89, 369, 371, 399, 461, 469
Litsea cubeba, 89, 349, 432
 Liu Chun Yu, 342
 Liu Lan, 343
 Liu Shen Cao, 343
 Liu Xing Zi, 343
 Liu Ye Cai, 343
Livistona chinensis, 89, 341, 478
 l-laudanidine, 509

- l-limonene, 431, 509
 l-linalool, 431
 l-lysine, 435
 l-menthone, 431
 l-methylcytisine, 431
 l-methylephedrine, 431
 l-norephedrine, 431
 Lo Han Song, 343
 Lo Huang Zi, 343
 Lo Sheng Kui, 343
 Loan Mao Cao, 343
 Loan Now Xiang, 343
 Lobelanidine, 435, 510
 Lobelanine, 435
Lobelia chinensis, 89, 200, 264, 327, 426, 435, 502, 523
Lobelia inflata, 264, 495, 510–511
Lobelia pulmonaria, 265, 491, 499, 517, 525
Lobelia pyramidalis, 89, 264, 349, 426, 435
Lobelia sessilifolia, 89, 264, 349, 426, 435
Lobelia siphilitica, 264, 489
 Lobelidiol, 510
 Lobeline, 435, 511
 Loganin, 435, 511
 Loliolide, 435
 Long Dan, 343
 Long Kui, 343
 Longiceroside, 435
Lonicera acuminata, 90, 265, 348, 424, 435–436, 466, 473–474
Lonicera apodonta, 90, 265, 333, 424, 435–436, 466, 473–474
Lonicera brachypoda, 90, 265, 340, 424, 435–436, 466, 473–474
Lonicera caerulea, 265, 497, 507, 510–511, 520, 522
Lonicera caprifolium, 265, 497, 507, 510, 520, 522
Lonicera chinensis, 90, 265, 348, 435, 473–474
Lonicera confusa, 90, 348, 424, 435, 473–474
Lonicera flexuosa, 90, 348, 435, 473–474
Lonicera hypoglauca, 90, 265, 337, 435, 473–474
Lonicera japonica, 90, 200, 348, 424, 435, 473–474, 520
Lonicera maackii, 90, 348, 435, 473
 Lonicerin, 435
Lophanthium gracile, 90, 331, 378, 399
Lophanthus chinensis, 90, 338
Lophanthus rugosus, 90, 200
Loranthus europaeus, 265, 509, 519
Loranthus parasiticus, 90, 265, 353, 380
Loranthus yadoriki, 90, 265, 380
Loropetalum chinense, 90, 339, 413, 461
 Lotaustralin, 435
 Lotusine, 435
 Lou Lu, 343
 Lour Lu, 343
 l-perilla, 431
 l-phellandrine, 431
 l-phyllandrene, 509
 l-pimara-8,15-dien-19-oic acid, 431
 l-pinene, 431
 l-pinocamphone, 431
 l-p-menthene, 431
 l-propenylsulfuric acid, 431
 l-pulegone, 431
 l-rhamnose, 431
 l-sesamen, 431
 l-stepharine, 431
 l-tetrahydropalmatine, 431
 Lu Cao, 343
 Lu Er Jin, 343
 Lu Gen, 343
 Lu Teng, 343
 Lu Wen, 343
 Lu Xian, 343
 Lu Xian Cao, 343
 Lu Yao, 343
 Lu Zhu, 343
 Lucernol, 435
Luffa aegyptiaca, 91, 201, 349, 368, 389, 415, 424, 438, 440, 472, 481–482, 484, 504, 529
Luffa cylindrica, 91, 201, 349, 368, 389, 415, 424, 438, 440, 472, 481–482, 484, 504, 529
Luffa faetida, 91, 349, 368, 389, 415, 424, 438, 440, 472, 481–482, 484
Luffa petola, 91, 349, 368, 389, 415, 424, 440, 472, 481, 484
 Lumicaerulic acid, 435
 Lun Ye Sha Seng, 343
 Lunularic acid, 435
 Luo Bu Ma, 343
 Luo Fu Mu, 343
 Luo Han Guo, 343
 Luo Hua, 344
 Luo Hua Zi Zhu, 344
 Luo Shi, 344
 Luo Ti Cao, 344
 Luo Xing Fu, 344
 Lupenone, 435
 Lupeol, 435
 Lupeol acetate, 435
 Lupeol palmitate, 435
 Lupin alkaloid, 436
 Lupinidin, 436
 Lupinine, 436
Lupinus luteus, 91, 361, 400, 436, 464
 Lupulin, 436

- Lupulone, 436, 511
 Lutein, 436
 Lutein-7-primveroside, 511
 Luteioic acid, 436
 Luteolin, 436, 511
 Luteolin-7-beta-D-glucopyranoside, 436
 Luteolin-7-beta-D-glucoside, 436
 Luteolin-7-glucoside, 436
 Luteolin-7-O-beta-D-glucopyranosil, 511
 Luteolin-7-rhamnoglucoside, 436
 Luteoline, 436
 Luteolinidin, 436
 Luteolinidin 5-glucoside, 436
 Luteolin-monoarabinoside, 436
 Lutolin, 511
Lycium barbarum, 91, 201, 265, 335, 383, 388, 446, 455, 484, 494, 496, 517–518, 528
Lycium chinense, 91, 201, 265, 332, 369, 383, 393, 430, 453, 494
Lycium megistocarpum, 91, 335, 383, 388, 446, 455, 484
Lycium ovatum, 91, 335, 383, 388, 446, 455, 484
Lycium pallidum, 265, 496, 517
Lycium trewianum, 91, 335, 383, 388, 455, 484
Lycium turbinatum, 91, 335, 383, 388, 484
 Lycoclavanin, 436
 Lycoclavanol, 436
 Lycodoline, 436
 Lycopene, 436
Lycoperiscon esculentum, 91, 201, 333, 477, 482, 490, 496, 503, 505, 515, 520, 522, 526
 Lycopodine, 436, 511
Lycopodium annotinum, 91, 201–202, 350, 373, 468, 478, 511, 517, 527
Lycopodium cernuum, 91, 340, 373, 468, 478
Lycopodium clavatum, 92, 202, 351, 373, 380, 393, 401, 412, 436, 446, 481, 500, 511, 517
Lycopodium compianatum, 91, 373, 468, 478
Lycopodium obscurum, 92, 202, 351, 373, 380, 393, 401, 412, 436, 446, 481, 500, 511, 517
Lycopodium selago, 92, 351, 373, 380, 393, 401, 412, 436, 481
Lycopodium serratum, 92, 351, 373, 380, 393, 401, 436, 481
 Lycopose, 436
Lycopus fargesii, 92, 265, 350, 418, 436, 462
Lycopus lucidus, 92, 265, 351, 418, 436, 462
Lycopus maackianus, 92, 351, 418, 436, 462
Lycopus obscurum, 265, 360
Lycopus parviflorus, 92, 351, 418, 436, 462
Lycopus phlegmaria, 265, 330
Lycopus ramosissimus, 92, 351, 418, 436, 462
Lycopus veitchii, 92, 265, 361, 418, 436, 462
Lycopus virginicus, 265, 497, 501, 516
 Lycoramine, 436
 Lycoricidine, 437
 Lycoricidinol, 437
 Lycorin, 437
 Lycorine, 437
Lycoris aura, 92, 351, 415, 422, 436, 459
Lycoris longituba, 92, 351, 415, 422, 436, 459
Lycoris radiata, 92, 351, 415, 422, 436–437, 459
Lygodium flexuosum, 92
Lygodium japonicum, 92, 335
Lyonia ovalifolia, 93, 346, 375, 437
 Lyoniols, 437
Lysimachia barystachys, 93, 266, 340, 366, 431
Lysimachia christinae, 93, 266, 340, 366, 431
Lysimachia clethroides, 93, 266, 340, 366, 431
Lysimachia davurica, 93, 266, 340, 366, 431
Lysimachia vulgaris, 266, 493, 521
 Lysine, 437, 511
Lysionotus pauciflorus, 93, 351, 413, 446, 449
Lythrum salicaria, 93, 202, 340, 347, 398, 407, 438, 465, 483, 520, 524, 526
 l-zingiberene, 509

M

- Ma An Teng, 344
 Ma Bian Cao, 344
 Ma Bo, 344
 Ma Chi Xian, 344
 Ma Dou Ling, 344
 Ma Dou Ling (Taiwan), 344
 Ma Huang, 344
 Ma Lan Zi, 344
 Ma Qian Zi, 344
 Ma Wei Lian, 344
 Ma Xian Gao, 344
Machilus thunbergii, 93, 336, 433, 444, 462
Macleaya cordata, 93, 328, 372, 384, 390, 395, 410, 421, 450, 465
 Maclurin, 437
 Macrephyllic acid, 437
Macrocarpium officinalis, 94, 349, 462, 475
 Macrophylline, 437
 Madasiatic acids, 511
 Madecassic, 511
 Madecassoside, 437
Maesa japonica, 94, 332, 437
Maesa perlaris, 94, 349, 371, 461
Maesa tenera, 94, 349, 437
 Maesaguinone, 437

- Magnesium, 437, 511
 Magnocurarine, 437, 511
 Magnoflorine, 437
Magnolia biloba, 94, 358, 375, 392–393, 410–411, 437, 465
Magnolia coco, 94, 359, 371, 393
Magnolia denudata, 94, 358, 375, 393, 410–411, 437, 465
Magnolia discolor, 94, 358, 375, 392–393, 410, 465
Magnolia fortunei, 94, 335, 371
Magnolia grandiflora, 94, 359
Magnolia hyoleuca, 95, 337, 371, 393, 430, 437, 445
Magnolia japonica, 95, 337, 371, 393, 445
Magnolia liliflora, 94, 202, 346, 375, 392, 410, 465
Magnolia officinalis, 95, 203, 337, 371, 430, 437, 445
Magnolia purpurea, 94, 358, 375, 392, 410, 465
 Magnolol, 437
Mahonia aquifolium, 266, 493, 498, 511, 515
Mahonia japonica, 95, 266, 335, 381, 428, 430, 469
 Mai Dong, 344
 Mai Men Dong, 344
 Mai Ya, 344
 Mairin, 437
 Makisterones, 437
 Makulor, 437
 Malic acid, 437, 511
 Mallol, 511
 Mallorepine, 437
 Mallotinin, 438
Mallotus japonicus, 95, 359, 371, 462, 474
Mallotus paniculatus, 95, 326, 374
Mallotus repandus, 95, 335, 381, 437–438, 462
 Malonic acid, 511
 Maltase, 438
 Maltose, 438
 Maluidin glucoside, 438
Malva chinensis, 95, 266, 332, 400, 430–431
Malva pulchella, 95, 266, 332, 400, 430
Malva rotundifolia, 266, 491, 503, 505, 511, 513
Malva sylvestris, 95, 266, 400, 430, 491, 503, 505, 511, 513
Malva verticillata, 95, 266, 332, 400, 430
 Malvidin, 438
 Malvin, 438, 511
 Man Jiang Hong, 344
 Man Shan Hong, 344
 Man Ti Xian, 344
 Man Tu Luo, 344
 Mandelonitrile, 438
 Mang Ji, 344
 Manganese, 438
 Mangiferin, 438
Manihot esculenta, 95, 203, 352, 422, 499
 Mannan, 438
 Manneotetrose, 438
 Mannit, 438
 Mannitol, 438, 511
 Mannosan, 438
 Mannose, 438
 Mao Di Huang, 344
 Mao Dong Qing, 344
 Mao Dong San Hu, 345
 Mao Gao Cai, 345
 Mao Guo Yan Ming Cao, 345
 Mao Liang, 345
 Mao Xian, 345
 Mao Zhua Chao, 345
 Mar Dong, 345
 Margaric acid, 438, 511
 Markogenin, 438
 Marmesin, 438
Marsdenia condurango, 266, 517, 529
Marsdenia tenacissima, 95, 266, 355, 438, 440, 467
 Marsdeoreophisides, 438
 Martaicaria ester, 438
 Maslinic acid, 438
 Masperuloside, 438
 Massoilactone, 511
 Mastic acid, 511
 Masticin, 511
 Masticinic acid, 438, 511
 Masticonic acid, 438
 Masticoresene, 438
 Matai-resinol, 438
 Matairesinoside, 438
 Matatabic acid, 439, 511
 Matatabiether, 439, 511
 Matatabistic acid, 439
 Matricaria, 439
Matricaria chamomilla, 96, 203, 359, 375–376, 380, 425, 437, 474, 483, 490–491, 493, 498, 503, 506, 511
 Matrine, 439
Matteuccia struthiopteris, 96, 203, 339, 379, 407, 413, 450, 457, 460, 472, 481, 492, 495, 497, 502, 514–515, 523
 Maysin, 511
 Maytanacine, 439
 Maytanbutine, 439
 Maytanprine, 439
 Maytansine, 439
 Maytansinol, 439
 Maytanvaline, 439

- Maytenus confertiflorus*, 96, 367, 406, 435, 439, 473
Maytenus diversifolia, 96, 331, 367, 406, 435, 439, 473
Maytenus hookeri, 96, 439
Maytenus serrata, 96, 345, 439
 Meconic acid, 511
 Meconine, 439
 Medicagemic acid, 439
Medicago falcata, 97, 346, 387, 396, 401, 403, 414, 435, 438–439, 441, 443, 449, 453, 467
Medicago lupulina, 97, 346, 396, 401, 403, 414, 435, 438–439, 441, 443, 449, 453, 467
Medicago polymorpha, 97, 346, 396, 401, 403, 414, 435, 438–439, 441, 443, 449, 453, 467
Medicago ruthenica, 97, 346, 396, 401, 403, 414, 435, 438–439, 441, 443, 449, 453, 467
Medicago sativa, 97, 204, 346, 396, 403, 414, 435, 438–439, 441, 443, 449, 467, 489, 498, 509, 518, 523
 Mei Deng Mu, 345
 Mei Gui Hua, 345
 Mei Hua Cao, 345
 Mei Li Cao, 345
 Mei She Chao, 345
Melaleuca leucadendra, 97, 204, 327, 380, 384, 392, 405, 431, 446, 461, 468–469, 476, 480
 Melaleucin, 439
Melasma arvense, 97, 336, 379, 443
Melia azedarach, 97, 204, 341, 380, 398, 414, 416, 430, 439, 446, 471, 478, 481, 503, 512, 527
Melia japonica, 97, 330, 380, 398, 414, 416, 430, 432, 439, 441, 446, 471, 478, 481
Melia toosendan, 97, 380, 398, 414, 416, 430, 439, 446, 471, 478, 481
 Meliacins, 512
 Melialactone, 439
 Melianotriol, 439
 Meliatin, 439
 Melibiase, 439
 Melilotic acid, 439
 Melilotoside, 439
Melilotus alba, 98, 205, 267, 328, 367, 391, 423, 439, 467, 480, 498, 503, 524
Melilotus arvensis, 267, 498, 503, 524
Melilotus indica, 98, 267, 367, 423, 439, 467, 480
Melilotus officinalis, 267, 498, 503, 506–507, 524
Melilotus suaveolens, 98, 267, 328, 367, 423, 439, 467, 480
Melochia corchorifolia, 98, 267, 359, 421, 439
 Melocorin, 439
 Melosatin D, 512
 Melotoxin, 439
 Melovinone, 512
 Menisnine, 439
 Menisperine, 439
 Menispermene, 439
Menispermum canadense, 267, 489, 500, 511, 513, 528
Menispermum dauricum, 98, 267, 333, 350, 359, 369, 401, 431, 439, 470, 472
Menispermum palmatum, 267, 499, 502, 509
Mentha arvensis, 99, 205, 268, 328, 440, 495, 510, 512, 525
Mentha dahurica, 99, 268, 328, 440
Mentha haplocalyx, 99, 205, 268, 328, 440, 495, 510, 512, 525
Mentha piperita, 268, 497, 499, 508, 510, 513, 517
Mentha pulegium, 268, 512, 518, 525
Mentha sachalinensis, 99, 268, 328, 440
Mentha spicata, 268, 497, 499, 508, 510, 512–513, 517
 Menthene, 439
 Menthiafolin, 439
 Menthol, 440, 512
 Menthone, 440, 512
 Menthyl acetate, 440, 512
Menyanthes trifoliata, 99, 205, 352, 373, 378, 384, 391, 414, 416, 419, 425, 435, 439, 468, 498, 503, 507, 516, 524, 527
 Menyanthin, 440
 Meoglucobrassicin, 440
 Mesaconitine, 440, 512
 Mesityl oxide, 440
 Mesoinositol, 440, 512
 Metaphanine, 440
 Metaploxigenin, 440
 Methanethiol, 440
 Methanolic, 440
 Methioine, 440
 Methlxanthines, 512
 Methoxyl-campthothecine, 440
 Methoxylhemigospol, 440
 Methyl acetyl-isocupressate, 440
 Methyl allyldisulfide, 440
 Methyl allyltrisulfide, 440
 Methyl amentoflavone, 440
 Methyl anthranilate, 440
 Methyl caffeate, 440
 Methyl chavicol, 512
 Methyl cinnamate, 440
 Methyl communate, 440

- Methyl eugenol, 441
 Methyl isobutyl ketone, 441
 Methyl isocupressate, 441
 Methyl nigakinone, 441
 Methyl palmitate, 441
 Methyl salicylate, 441, 512
 Methyl-3-O-beta-glucopyranosyl-gallate, 440
 Methylacetic acid, 441
 Methyamine, 512
 Methylantranilate, 441
 Methylchavicol, 441, 512
 Methyl-corypalline, 441
 Methylcytisine, 441, 512
 Methylene-bishydroxy-coumarin, 441
 Methylphenhedrine, 441
 Methyllethylacetic ester, 441
 Methylheptenol, 441
 Methylheptenone, 441
 Methylisopelletierine, 441
 Methylkulonate, 441
 Methyl-laurate, 441
 Methylcaconitine, 441
 Methyl-l-propenyl disulfide, 441
 Methylmyristate, 441
 Methyl-n-amyl ketone, 441
 Methyl-n-nonyl ketone, 441
 Methyl-n-propyl ketone, 512
 Methyl-pelletierine, 441
 Methylpentosans, 441
 Methyl-swertianin, 441
 Methylpalmitate, 441
 Methypentose, 441
 Mezerein, 512
 Mi Hou Tao, 345
 Mi Meng Hua, 345
 Mian Bao Shu, 345
 Mian Hua Gen, 345
 Mian Ma Guan Zhong, 345
 Mian Zi Soo, 345
 Michelabine, 441
 Michelenolide, 442
Michelia alba, 99, 327, 368, 441, 449, 480
Michelia figo, 99, 336, 368, 441, 449, 480
Milletia reticulata, 99, 339, 376, 464
Milletia taiwaniana, 99, 343, 376, 464
 Miltirone, 442
Mimosa arborea, 99, 268
Mimosa hostilis, 268, 514
Mimosa invisa, 99, 268, 336, 442
Mimosa pudica, 99, 205, 336, 442, 514
 Min Dong Seng, 345
 Mineral elements, 442, 512
 Minerals, 442, 512
 Miniatine, 442
 Minosine, 442
 Mitraphylline, 442
 Mo Han Lian, 345
 Mo Ja Chao, 345
 Mo Li Hua, 345
 Mo Yao, 345
 Mo Yue, 345
 Molephantin, 442
Momordica charantia, 100, 206, 341, 377, 496, 502, 507, 512
Momordica cylindrica, 100, 349
Momordica grosvenori, 100, 343, 409
 Monocrotalines, 442
 Monoterpene, 442, 512
 Monoterpene glycosides, 512
 Monoterpenoid glycosides, 512
 Monotropin, 442
 Moo Tune, 345
 Morin, 442
Morinda citrifolia, 100, 268, 339, 371, 373, 404, 418, 438, 447, 464, 471
Morinda didyma, 269, 512, 528
Morinda fistulosa, 269, 512, 528
Morinda officinalis, 100, 268, 326, 371, 373, 404, 418, 438, 464, 471
Morinda parvifolia, 100, 268, 358, 371, 440, 442
Morinda punctata, 269, 512, 528
 Morindadiol, 442
 Morindaparvin-A, 442
 Morindin, 512
 Mormordicine, 512
 Mormordin, 512
 Morolic acid, 442
 Morphine, 442, 512
 Morroniside, 442
Morus alba, 100, 206, 349, 366, 398, 404, 437, 442–443, 491–492, 503, 528
Morus constantinopolitana, 100, 349, 366, 398, 404, 437, 442–443
Morus indica, 100, 349, 366, 398, 404, 437, 443
 Motephantinin, 442
 Mu Dan Pi, 345
 Mu Er Cao, 345
 Mu Fang Ji, 345
 Mu Gui, 345
 Mu Jin, 346
 Mu Jing, 346
 Mu Jing Chi, 346
 Mu Lan, 346
 Mu Tong, 346
 Mu Tou Hui, 346
 Mu Xiang, 346
 Mu Xu, 346
 Mu Yu Ma, 346
 Mu Ziang, 346
 Mucic acid, 442

Mucilage, 442, 513
 Mucronatine, 442
 Mucronatinine, 442
 Mucus, 442
 Mukorosside, 443
 Mulberrin, 443
 Mulberrochromene, 443
 Multiflorin, 443
 Munjistin, 443
 Muramine, 443
 Muricatin A, 443
Murraia koenigii, 269, 509, 524, 529
Murraia paniculata, 101, 269, 341, 367, 384, 430, 441, 449, 451
Musa paradisiaca, 101, 357, 447, 468
 Musaenoide, 443
 Muscarine, 443
 Muslinic acid, 443
Mussaenda parviflora, 101, 361, 479
 Mustard oil, 443, 513
 Mustard-oil glycosides, 513
 Mutaxanthin, 443
 Myoinositol, 513
 Myrcene, 443, 513
Myrica cerifera, 269, 503, 524, 527
Myrica penxylvanica, 269, 503, 524, 527
Myrica rubra, 101, 269, 443
 Myricetin, 443, 513
 Myricitrin, 443
 Myricyl, 443
 Myricyl alcohol, 443, 513
 Myriogynine, 443
 Myristic acid, 443, 513
Myristica fragrans, 101, 206, 348, 375, 399, 417, 421, 426, 465, 499, 506, 520
 Myristicin, 513
 Myristoleic acid, 513
 Myrocin, 443
 Myrosinase, 443
 Myrtenol, 443
 Myrtocyan, 513

N

Na Yang Shan, 346
 Nan Gua Zi, 346
 Nan He Chi, 346
 Nan Tian Zhu, 346
 Nan Wu Wei Zi, 346
 Nan Zhu, 346
 Nandazurine, 444
Nandina domestica, 101, 346, 381, 398, 406, 444
 Nandinine, 444

Napelline, 514
 Naphthalene glycosides, 514
 Naphthaquinone, 444, 514
 Naphthopyrones, 444
Narcissus tazetta, 102, 206, 352, 444, 488, 509
 Narcotine, 444
 Narcotine, 444, 514
Nardostachys grandiflora, 269
Nardostachys jatamansi, 102, 269, 334, 428, 468
 Naringenin-4'-O-pyrangluoside, 444
 Naringin, 444
 Nasunin, 445
Nauclea rhynchophylla, 102, 335, 427, 463
 Naucleoside, 445
 n-butyl allophanate, 444
 n-butyl-2-ethyl butyl phthalate, 444
 n-butylidenephthalide, 513
 n-caprylaldehyde, 444
 n-coumaric, 513
 N-desmethylchelerythrine, 443
 N'-desmethyldauricine, 513
 n-dodecanol, 513
 Neferine, 445
 Negundoside, 445
 Nei Don Zi, 346
Nelumbium nelumbo, 102, 269, 336, 402, 441
Nelumbium nuciferum, 102, 269, 342, 376, 404, 444, 447-448, 464
Nelumbium officinale, 269
Nelumbium speciosum, 102, 269, 376, 444, 447, 464
 Neo-allicin, 445
Neosomitra integrifoliola, 102, 328, 389, 397, 425
 Neoandrographolide, 445
 Neoanisatin, 445
 Neoboschnialactone, 445
 Neocarthamin, 445
 Neochlorogenic acid, 445
 Neocnidilide, 445
 Neocryptomerin, 445
 Neogitogenin, 445
 Neoglucobrassicin, 445
 Neoherculin, 445, 514
 Neohesperidin, 445
 Neo-lignans, 445
 Neolinarin, 445
 Neolinderalactone, 445
 Neoline, 514
 Neomatabiol, 445, 514
 Neo-nepetalactone, 445, 514
 Neothujic acid, 514
 Neotigogenin, 445
 Neoxanthin, 445
Nepenthes raffsiana, 103, 362, 374, 376

- Nephelium lappaceum*, 103, 336, 466, 475, 482
Nephelium longana, 103, 348, 466, 475
 Nepodin, 445, 514
 Neriin, 514
 Nerinine, 445
 Nerioderin, 445
 Neriodin, 445
 Neriodorin, 445
Nerium indicum, 103, 270, 339, 369, 445, 448, 467, 480
Nerium oleander, 270, 498, 503, 514, 518
 Nerol, 445
 Nerolidiol, 446
 Nerolidol, 446
Nervilia purpurea, 103, 359, 398, 404, 408, 446, 472
 Nervisterol, 446
 Nevadersin, 446
 n-formyl-N-deacetylcolchine, 444
 n-hentriacontane, 444
 n-hexacosane, 444
 Niacin, 446, 514
 Nicotelline, 446
Nicotiana tabacum, 103, 207, 358, 446, 489
 Nicotimine, 446
 Nicotine, 446, 514
 Nicotinic acid, 446, 514
 Nigakihemiacetal A, 446
 Nigakilactone A, 446
 Nigakinone, 446
 Nigergine (N,N-dimethyltryptamine), 514
 Nilgirine, 446
 Nimbin, 446
 Nimbolins, 446
 Ning Meng Sian Mao, 346
 Niranthin, 446
 Nirtetralin, 446
 Nishindaside, 446
 Nishindine, 446
 Nitidine, 446
 Nitroacronycine, 446
 Nitryl-glycoside, 446, 514
 Niu Bang Chi, 346
 Niu Fang Feng, 346
 Niu Zi Qie, 346
 n-methyl anabasine, 513
 n-methyl anthranilic acid, 444
 n-methyl-2-(beta-OH-propyl) piperidine, 444
 n-methylanthranflamide, 444
 n-methylcoclaurine, 444
 n-methylisococlaurine, 444
 n-methyl-isopelletierine, 444
 n-methylmorpholine, 444
 n-methyltyramine, 444
 n-n-dimethyl-5-methoxytryptamine, 444
 N,N-dimethyltryptamine, 444
 N,N-dimethyltryptamine oxide, 444
 n-nonyl aldehyde, 444
 n-norarmepavine, 444
 Nobiletin, 446
 Nocoteine, 446
 Nodakenetin, 447
 Nodakenin, 447
 Nonacosan-10-ol, 447
 Nonacosan-10-one, 447
 Nonacosane, 447
 Nonadecanoid, 514
 Nonalactone, 447
 Nonanal, 447
 Nonyl aldehyde, 447
 Nonylic aldehyde, 447
 Norargemonine, 514
 Nordamnacanthal, 447
 Nordracorubin, 447
 Norepinephrine, 447
 Noreugenin, 447
 Noricariin, 447
 Norkurarinone, 447
 Normenisarine, 447
 Norpseudoephedrine, 447
 nor-rubrofusarin, 447
 Norsecurinine, 447
 Nortracheloside, 447
Nothosmyrnium japonicum, 103, 334, 405
 Nothosmyrnol, 447
 Notoptero, 447
Notopterygium incisum, 103, 335, 411, 426, 447
 Nou Me, 346
 Novacine, 447
 n-pentadecane, 513
 n-phenylethyl alcohol, 444
 n-tetradecanol, 513
ntiaris toxicaris, 17, 339, 372, 384, 395, 453, 469, 473
 n-trans-coumaroyltyramine, 513
 n-trans-feruloyltyramine, 513
 Nu Zhen Zi, 346
 Nuciferine, 447
 Nudicaulin, 447
Nuphar japonicum, 104, 347, 447, 470
Nuphar pumilum, 104, 347, 447, 470
 Nupharamine, 447
 Nupharine, 514
 Nuzhenide, 447
Nymphaea alba, 270, 514, 526
Nymphaea tetragona, 104, 270, 374
 Nymphaeine, 514

O

- o-acetylcolumbianetin, 447
 Obacunone, 448
 Obakinone, 448
 Obtusifolin, 448
 Obtusin, 448
 Ocimene, 448, 514
 Octacosane, 448
 Octacosanol, 448, 514
 Octadecatetraenic acid, 448, 514
 Octalactone, 448
 Octanol, 448
 Octopinic acid, 448
 o-cumaric acid, 447
 Odine, 448
 Odoratin, 448
Oenathera biennis, 104, 207, 350, 367, 503, 510, 524
Oenathera javanica, 104, 352, 373–374, 384, 403, 444, 453, 476
Oenathera odorata, 104, 348, 367
Oenathera terythrosepala, 104, 331
 o-isovaleryl columbianetin, 447
 Okinalin, 448
 Okinalin, 448
Oldenlandia chrysotricha, 104, 351, 384, 416, 472, 480
Oldenlandia corymbosa, 104, 384, 416, 472, 480
Oldenlandia diffusa, 104, 327, 379, 448, 451, 472, 480
 Oldenlandoside, 448
 Oleandomycin, 514
 Oleandrin, 448, 514
 Oleandrose, 448
 Oleanene derivatives, 448
 Oleanolic acid, 448
 Oleic acid, 448, 514
 Olein, 449
 Olein acid, 449
 Oleoresin, 449, 514
 Oleostearic acid, 515
 Oligopeptides, 515
 Oligosaccharides, 449
 Olitoriside, 449
Omphalia lapidescens, 105, 342, 417
 Onjisaponin A, 449
 Onjisaponin B, 449
 Ononitol, 449
 o-nornuciferine, 448
Onychium japonicum, 105, 338, 429
 Ophelic acid, 449
Ophioglossum japonicus, 105, 344, 462, 472
Ophioglossum vulgatum, 105, 360, 367
 Ophiopogenins, 449
Ophiopogon gracilis, 105, 344
Ophiopogon japonicus, 105, 345, 359, 429
Ophiopogon longifolius, 105, 344
Ophiopogon spicatus, 105, 344
Ophiorrhiza japonica, 105, 339, 367, 371, 422, 474
Ophiorrhiza mungos, 105, 367, 371, 422, 474
Oplopanax elatus, 105, 270, 331, 407, 449
Oplopanax horridus, 270, 517, 522
 Oplopanaxosides, 449
Orchis latifolia, 106, 270, 336, 371
Orchis mascula, 270, 513
 Organic acids, 449, 515
 Oridonin, 449
 Orientoside, 449
 Oripavine, 515
 Orthomethylcoumaric aldehyde, 449
Oryza sativa, 106, 346, 374, 426, 433, 454, 477, 479, 481
 Osalic acid, 449
 Osmane, 449
Osmanthus fragrans, 106, 335, 345, 441, 445, 449, 480
Osmunda japonica, 106, 362, 398, 406–407, 457
 Osthonol-7-o-beta-gentiobioside, 449
 Osthol, 449
 Oxalate, 449, 515
 Oxalic acid, 449, 515
Oxalis acetosela, 271
Oxalis corriculaza, 106, 271, 349, 437, 475, 482
Oxalis corymbosa, 106, 271, 349, 437, 475, 482
 Oxoushinsunine, 449
 Oxyberberine, 515
 Oxycanthine, 450
 Oxychelerythrine, 450
 Oxylenzoic acid, 515
 Oxylysin, 450
 Oxymatrine, 450
 Oxymethyl anthraquinone, 450
 Oxynitidine, 450
 Oxypaeoniflorin, 450
 Oxypeucedanane, 450
 Oxypurpureine, 450
Oxyria digyna, 106, 207, 335, 442, 462, 492, 495, 502, 512, 518, 520
 Oxyristic acid, 450
 Oxysanguinarine, 450

P

- Pa Jiao Lian, 346
 Pachymarose, 450
 Pachymic acid, 450, 515

- Pachyrhizus thunbergianus*, 106, 335
Paenoia albiflora, 107, 207, 327, 369, 371, 380, 450–451, 489, 493, 512, 515
Paenoia edulis, 107, 327, 369, 371, 380, 450–451
Paenoia japonica, 107, 327, 369, 371, 380, 451
Paenoia lactiflora, 107, 207, 327, 369, 371, 380, 451, 489, 493, 512, 515–516
Paenoia mourian, 107
Paenoia moutan, 107, 327, 369, 371, 380, 451
Paenoia obovata, 107, 345, 379, 451–452
Paenoia officinalis, 107, 208, 327, 369, 371, 380, 491, 505, 524
Paenoia suffruticosa, 107, 208, 345, 379, 451, 493, 512
Paenoia veitchii, 107, 345, 379, 451
 Paeoniflorin, 515
 Paeonidin, 451
 Paeoniflorin, 451
 Paeonin, 451, 515
 Paeonol, 451, 515
 Paeonoside, 451
 Pai Lan (Taiwan), 346
 Pai Qian Chao, 346
 Pai Qian Shu, 346
 Palamatine, 451
 Palderoside, 451
 Paliloleic acid, 515
 Pallidine, 451
 Palmaline, 451
 Palmatine, 451
 Palmitic acid, 451, 515
 Palustrine, 451
 Pan Chan Teng, 347
Panax ginseng, 107, 208, 348, 417, 460, 471, 479, 505, 515, 517
Panax japonicum, 107, 362, 391, 417, 466
Panax notoginseng, 107, 354, 417, 451, 466
Panax quinquefolium, 107, 208, 353, 488, 505, 515, 517
Panax zingiberensis, 108, 349, 377, 451
 Panaxadiol, 451
 Panaxosides, 515
 Panaxynol, 451
 Paniculatincomurrayin, 451
 Pantothenic acid, 451, 515
 Papain, 451
Papaver amurense, 108, 271, 360, 374–375, 395, 443, 447
Papaver bracteatum, 271, 498, 512, 515, 526
Papaver nudicaule, 108, 271, 360, 374–375, 395, 443, 447
Papaver radicatum, 108, 360, 374–375, 395, 443, 447
Papaver rhoeas, 108, 209, 271, 342, 463, 498, 512, 515, 526
Papaver somniferum, 108, 209, 271, 361, 367, 381, 394, 426, 432, 439, 459, 463, 472, 477, 489, 498, 511–512, 529
 Papaverine, 451, 515
 Paraaspidin, 451
Paracyclea insularis, 108, 355, 424
Paracyclea ochiaiana, 108, 424
 Paradin, 515
 Parasorbic acid, 451
Parechites adnascens, 108, 344
 Paridol, 515
Parietaria judaica, 271, 503, 524
Parietaria micrantha, 109, 271, 347
 Parietin, 451
 Parinaric acid, 515
Paris polyphylla, 109, 362, 373, 405, 471
Paris quadrifolia, 109, 209, 373, 405, 497, 509, 515
 Paristypnine, 515
Parnassia palustris, 109, 345, 423, 429
Parthenocissus tricuspidata, 109, 332, 398, 437, 448
 Parthenolide, 452
 Patchoulene, 452
Patrinia heterophylla, 109, 346
Patrinia scabiosaefolia, 109, 327, 360, 427, 452
 Patrinioside, 452
 Patuletin, 452
 Patulitrin, 452
 p-coumaric acid, 450, 515
 p-cymene, 450
 Pectic acid, 452
 Pectic compound, 452
 Pectins, 452, 515
 Pectolinarigenin, 452
 Pectolinarin, 452
Pedicularis canadensis, 272, 489, 507, 516
Pedicularis palustris, 272, 489, 507, 516
Pedicularis resupinata, 109, 272, 344, 372, 381, 384, 429
 Peganine, 452
 Pei Lan, 347
 Peimidine, 452
 Peimilidine, 452
 Peimine, 452, 516
 Peiminine, 452
 Peimisine, 452
 Peiniphine, 452
 Pelargonidin glycosides, 516
 Pelargonidin-3-rhamnosylglucoside, 452
 Pelargonin, 452
 Pelletierene alkaloids, 516
 Pelletierine, 452
 Peltatin, 452
 Pencordin, 452

- Peng Lai Teng, 347
 Peng Wo Mao, 347
 Peng Zi Cao, 347
 Pentacosane, 516
 Pentagalloyl glucoside, 516
 Pentane, 516
 Pentanoic acid, 452
 Penta-o-galloyl-beta-d-glucose, 452
 Pentosan, 452
 Pentosane, 452
 Pentose, 452, 516
 Pepsin, 452
 Peptides, 453
 Peraksine, 453
 Peregrinine, 516
 Pergularin, 453
 Pericalline, 453
Pericamylus formosanus, 109, 347, 442, 444
Perilla arguta, 110, 362, 367–368, 371–372, 376–377, 398
Perilla frutescens, 110, 209–210, 357, 367, 371–372, 376–377, 398, 431, 436, 453, 489–491, 502, 509, 516, 522
Perilla ocymoides, 110, 357, 367–368, 371–372, 376–377, 398, 453
Perilla polystachya, 110, 357, 367–368, 371–372, 376–377, 398, 453
 Perilladehyde, 453
 Perillanin chloride, 516
 Peripalloside, 453
Periploca sepium, 110, 363, 388, 458, 472
 Periplocin, 453
 Perividine, 453
 Perivine, 453
 Perlolyrine, 453, 516
Persicaria amphibia, 110, 380, 429, 461
Persicaria hydropiper, 110, 423, 427, 457, 461, 463, 473
Persicaria orientalis, 110, 449, 456, 483
 Persicarin, 453
 Persuosides, 453
Petasites japonicus, 111, 333, 379, 381, 463, 477
 Petroselaidic acid, 516
 Petroselenic acid, 516
 Petroselic acid, 453
 Petroselidinic acid, 453
 Petroselinic acid, 453
 Petunidin, 453
 Petunidin glucoside, 453
Peucedanum decursivum, 111, 272, 347, 418
Peucedanum formosanum, 111, 272, 347, 376, 453
Peucedanum graveolens, 272, 498, 527, 529
Peucedanum japonicum, 111, 272, 334, 402, 447, 452, 460, 464, 480
Peucedanum praeruptorum, 111, 272, 334, 402, 447, 452, 460, 464, 480
Peucedanum rubricaulis, 111, 402, 447, 452, 460, 464, 480
 Peuformosin, 453
 Phanol, 516
 Phantomolin, 453
 Pharbilic acid, 453
Pharbitis diversifolia, 111, 348, 417–418, 453
Pharbitis hederacea, 111, 348, 417–418, 453
Pharbitis nil, 111, 418, 453
Pharbitis triloba, 111, 348, 417–418, 453
Phaseolus angularis, 111, 340, 373, 412, 429, 463, 482
Phaseolus lunatus, 111, 340, 373, 412, 429, 463, 482
Phaseolus radiatus, 111, 340, 373, 412, 429, 463, 482
Phaseolus vulgaris, 111, 210, 340, 373, 412, 429, 463, 482, 490, 507, 510, 523, 527
 Phasin, 453
 Phasine, 453
 Phellandrene, 453, 516
 Phellandrine, 453
 Phellodendrine, 453
Phellodendron amurense, 111, 210, 337, 381, 387, 448, 453, 493, 508, 522–523
Phellodendron chinensis, 111, 210, 337, 381, 387, 453, 493, 508, 522–523
 Phellopterin, 453
 Phenanthrene-1,4-quinone, 453
 Phene, 454
 Phenethylamine, 454
 Phenol, 454, 516
 Phenolic acid, 454, 516
 Phenolic compounds, 454
 Phenolic derivatives, 454
 Phenolic flavonols, 516
 Phenolic glycosides, 516
 Phenols, 516
 Phenyl ethyl, 516
 Phenyl ethyl alcohol pentosans, 454
 Phenylacetic acid, 454
 Phenylalanine, 454
 Phenylpropyl cinnamate, 516
 Phenyl-propanoid glycosides, 516
 Phenylpropanoids, 516
 Phenylpropyl alcohol, 454
 Phenylheptatriyne, 454
 Phetidine, 454
 Phillyrin, 454
 Phlobaphene, 454, 516
 Phorbol, 454

- Phosphatase, 454
 Phosphates, 454
 Phosphatides, 454
 Phosphatidylcholine, 454
 Phosphatidyl-ethanolamine, 454
 Phosphatidyl-inositol, 454
 Phosphatidyl-serine, 454
Photinia serrulata, 112, 351, 422, 474
Phragmites australis, 273, 488, 492, 498, 502, 505, 517–518, 522–523, 526–527
Phragmites communis, 112, 210, 272, 343, 379, 495, 499, 512, 518
 Phthalide, 454, 516
 p-hydroxyacetophenone, 450
 p-hydroxybenzoic, 450, 515
 p-hydroxybenzoic acid, 450
 Phyllandrene, 517
 Phyllanthin, 454
 Phyllanthine, 454
Phyllanthus emblica, 112, 359, 373, 390
Phyllanthus niruri, 112, 362, 423, 446, 454
Phyllanthus reticulatus, 112, 362, 423, 446, 454
Phyllanthus simplex, 112, 331, 373
Phyllanthus urinaria, 112, 360, 423, 446, 454
Phyllanthus virgatus, 112, 357, 374
 Phyllantidine, 454
Phyllitis scolopendrium, 356
Phyllodium pulchellum, 112, 346, 414, 444
Phyllostachys bambusoides, 113, 330, 374, 380, 425, 457, 469
Phyllostachys nigra, 113, 210, 330, 374, 380, 457, 469
 Phylteralin, 454
 Physalein, 455
 Physalin, 517
 Physalin A, 455
 Physalin B, 455
 Physalin C, 455
Physalis alkekengi, 113, 273, 340, 379, 397, 418, 423, 443, 455, 477, 484, 489, 503, 517, 523, 528
Physalis angulata, 113, 211, 273, 341, 423
Physalis franchetti, 273, 489, 503, 517, 528
Physalis pubescens, 273, 489, 503, 517
 Physanols, 455
 Physcim-l-gluco-rhamnoside, 455
 Physcion, 455, 517
Physochlaina infundibularis, 113, 337, 467
 Physoxanthin, 455
 Phytic acid, 455, 517
 Phytin, 455, 517
 Phytoene, 517
 Phytoestrogens, 455
 Phytofluene, 455, 517
Phytolacca acinosa, 113, 211, 350, 428, 450, 455, 466, 509, 513
Phytolacca americana, 113, 211, 350, 428, 450, 455, 466, 496, 508
Phytolacca japonica, 113, 350, 428, 450, 455, 466
Phytolacca kaempferi, 113, 350, 428, 450, 455, 466
Phytolacca octandra, 113, 350, 428, 450, 455, 466
Phytolacca pekinensis, 113, 350, 428, 450, 455, 466
 Phytolaccatoxin, 455
 Phytolacine, 455
 Phytosterindigitonid, 455
 Phytosterine, 455
 Phytosterols, 455, 517
 Phytotoxin, 455
 Pi Jiang, 347
 Pi Pa Yie, 347
 Picralinal, 455
Picrasma excelsa, 273, 489, 498, 519, 521
Picrasma quassioides, 113, 273, 341, 366, 441, 446, 455, 460
 Picrasmin, 455
 Picrinine, 455
Picrorhiza kurroa, 114, 337, 370, 389, 430, 481
 Picrorhizin, 455
 Pienen acid, 455
 Pigments, 517
Pileostegia viburnoides, 114, 330, 368, 433, 435
 Pimaradene, 455
Pimela alba, 114, 334
Pimpinella anisum, 274, 488, 498–499, 502
Pimpinella thellungiana, 114, 273, 338, 424
 Pin Di Mu, 347
 Pin Peng Cao (Japan), 347
 Pinocamphene, 517
Pinellia ternata, 114, 328, 374, 391, 431
Pinellia tuberifera, 114, 328, 374, 391, 431
 Pinene, 456, 517
 Pinicolic acid, 456
 Pinipicrin, 456
 Pinitol, 456
 Pinnatin, 456
 Pinocarveol, 456
 Pinoresinol-di-beta-D-glucoside, 456
Pinus albicaulis, 274, 490, 494–495, 504, 511, 519, 528
Pinus bungeana, 114, 274, 353, 456
Pinus contorta, 274, 490, 494–495, 504, 511, 519, 528
Pinus densiflora, 114, 274, 353, 456
Pinus koraiensis, 114, 274, 353, 456
Pinus mugo, 274, 490, 494–495, 504, 511, 519, 528

- Pinus palustris*, 274, 490, 494–495, 504, 511, 519, 528
- Pinus strobus*, 274, 490, 494–495, 504, 511, 519, 528
- Pinus sylvestris*, 114, 211, 274, 353, 456, 490, 494, 500
- Pinus tabulaeformis*, 114, 274, 353, 456
- Piper cubeba*, 114, 211, 328, 380, 392, 405, 464, 499, 517, 519, 529
- Piper longum*, 115, 211–212, 328, 483, 496, 509, 517–518, 529
- Piper nigrum*, 115, 212, 389–390, 397, 404, 456, 496, 509, 517–518, 529
- Piperamine, 456
- Piperidine, 456, 517
- Piperine, 517
- Piperitone, 456
- Piperonal, 456
- Pistacia lentiscus*, 115, 212, 348, 415, 438, 490, 494, 511, 524
- Pittosporum tobira*, 115, 336, 404, 421
- Plantagin, 456
- Plantago asiatica*, 115, 212, 274, 329, 379, 400–401, 420, 430, 456, 480, 510, 513, 515
- Plantago depressa*, 115, 274, 329, 379, 400–401, 420, 430, 456, 480
- Plantago exaltata*, 115, 274, 329, 379, 400, 420, 430, 456, 480
- Plantago loureiri*, 115, 274, 329, 379, 420, 456, 480
- Plantago major*, 115, 212, 274, 329, 379, 420, 456, 480, 493, 513, 524
- Plantago psyllium*, 274, 379, 510, 513, 515
- Plantasan, 456
- Plantenolic acid, 456
- Plastoquinone, 456, 517
- Plastoquinone-9, 456
- Platyclusus occidentalis*, 275, 488–489, 501–502, 504, 513, 517–518
- Platyclusus orientalis*, 115, 274, 329, 456
- Platycodigenic acids, 456
- Platycodigenin, 456
- Platycodon autumnalis*, 115, 339, 367, 384, 456–457, 471
- Platycodon grandiflorum*, 115, 339, 367, 384, 471
- Platycodon sinensis*, 115, 339, 367, 384, 456, 471
- Platycodonin, 456
- Platycodosides, 456
- Platycenin, 456
- Plumbago zeylanica*, 116, 326, 366, 419, 425, 449–450, 456, 469
- Plumeria rubra*, 116, 336, 368, 371, 390, 412, 417, 429, 435
- p-lumicolchicine, 450
- Plumieric acid, 456
- Plumieride, 456
- p-methoxybenzylacetone, 450
- p-methoxycinnamaldehyde, 450
- p-methoxycinnamic acid, 450
- p-methoxystyrene, 515
- Po Po Na, 347
- Po Shu, 347
- Po Yen, 347
- Podocarpene, 456
- Podocarpus macrophyllus*, 116, 343, 407, 421, 437, 445, 456–457, 467, 478
- Podocarpusflavones, 457
- Podophyllum peltatum*, 116, 326, 403, 457
- Podophyllum pleianthum*, 116, 326, 403, 457
- Podophyllotoxin, 457
- Podophyllotoxin type lignans, 517
- Podototar, 457
- Pogostemon cablin*, 117, 213, 338, 495, 522
- Polyacetylene, 457, 517
- Polyanthus narcissus*, 117, 352
- Polydatin, 457
- Polygala japonica*, 117, 275, 353, 475
- Polygala senega*, 275, 512
- Polygala sibirica*, 117, 275, 353, 475
- Polygala tatarinowii*, 117, 275, 353, 475
- Polygala tenuifolia*, 117, 275, 361, 449
- Polygala vulgaris*, 275, 504, 529
- Polygalacic acid, 457
- Polygalic acid, 517
- Polygalitol, 517
- Polygodiol, 457
- Polygonatum biflorum*, 275, 503, 528
- Polygonatum chinense*, 117, 275, 337, 394–395, 407–408, 419, 442, 472
- Polygonatum cirrhifolium*, 117, 275, 337, 394, 442, 472
- Polygonatum macropodium*, 117, 275, 337, 394, 442, 472
- Polygonatum multiflorum*, 275, 336, 407–408, 419, 503, 528
- Polygonatum odoratum*, 117, 213, 275, 339, 394, 442, 472, 503, 528
- Polygonatum officinale*, 117, 275, 394, 442, 472
- Polygonatum sibiricum*, 117, 275, 337, 394, 442, 472
- Polygonatum stenophyllum*, 117, 275, 337, 394, 442, 472
- Polygonatum vulgare*, 117, 275, 339, 394, 442, 472
- Polygonin, 457
- Polygonone, 457
- Polygonum aviculare*, 117, 213, 328, 380, 400, 474, 503, 517, 522

- Polygonum bistorta*, 118, 213, 329, 376, 380, 388, 410, 461, 491, 497, 509
Polygonum cuspidatum, 118, 337
Polygonum hydropiper, 118, 213, 427, 461, 463, 491, 497, 509
Polygonum lapidosa, 117, 328, 351, 380, 474
Polygonum manshuriensis, 117, 328, 380, 474
Polygonum multifolium, 118, 214, 463, 517, 522
Polygonum orientale, 118, 352, 483
Polygonum perfoliatum, 119, 334, 374
Polygonum tinctorium, 119, 328, 374
Polygonum vivipara, 117, 328, 380, 474, 503, 517, 522
Polyine, 457
Polynes, 517
Polypeptides, 517
Polyphenolic acids, 517
Polyphenols, 457, 517
Polyporus umbellatus, 119, 362, 384, 408
Polysaccharides, 457, 517
Polysaccharopeptide, 457
Polythienyls, 457
Ponasterone, 457
Ponasterone A, 457
Poncirin, 457
Poncirus trifoliata, 119, 335, 381, 393, 416, 434, 445
Pongamia pinnata, 119, 352, 380, 415, 429, 456
Pongapin, 457
Ponicidine, 457
Populin, 457, 517
Populinin, 457
Populus alba, 119, 214, 276, 360, 381, 408, 465, 478, 498, 502, 525
Populus balsamifera, 276, 516
Populus candicans, 276, 516
Populus davidiana, 119, 276, 360, 381, 408, 465, 478
Populus tomentosa, 119, 276, 360, 381, 408, 465, 478
Populus tremuloides, 276, 517
Poria cocos, 119, 214, 334, 406, 450, 456, 479, 494, 515
Porphyrins, 518
Portulaca grandiflora, 119, 353, 383, 457
Portulaca oleracea, 120, 214, 344, 389, 437, 447, 458, 482
Portulaca pilosa, 120, 336, 374, 437, 454, 458
Portulac, 457
Potassium, 457, 518
Potassium hydroxide, 457
Potassium malate, 458
Potassium myronate, 458
Potassium nitrate, 458
Potassium oxide, 458
Potassium salts, 458
Potassium sodium, 458
Potentilla anserina, 276, 501
Potentilla bifurca, 120, 276, 356, 400
Potentilla chinensis, 120, 276, 356, 400
Potentilla discolor, 120, 276, 356, 400
Potentilla erecoa, 276, 496, 501, 516, 524
Potentilla fragarioides, 120, 276, 356, 400
Potentilla freyaiana, 120, 276, 356
Potentilla kleiniana, 120, 356
Potentilla tormentilla, 276, 496, 501, 516, 524
Poterium officinale, 120, 214–215, 332, 500, 505, 521
Precatorine, 458
Pregnenes, 458
Prescription drug interactions, 3
Preskinnianine, 458
Primula asiatica, 121, 360, 369, 458–459
Primula sieboldii, 121, 276, 360, 369, 458–459
Primula veris, 276, 524, 527, 529
Primula vulgaris, 121, 215, 276, 360, 369, 459, 524, 527, 529
Primulagenin A, 458
Proanthocyanidins, 518
Procurcumenol, 458
Procyanidins, 518
Proesapanin A, 458
Progesteron, 518
Proline, 458
Prometaphanine, 458
Pronuciferine, 458
Propeimin, 458
Propionic acid, 458
Prosapogenin, 458
Protease, 458
Protein, 518
Protein (TAP29), 459
Proteinase, 459
Proteins, 458
Protoalkaloids, 518
Protoalunin, 518
Protoanemonin, 459
Protoanemonoid compound, 518
Protoberberine alkaloids, 518
Protocatechetic acid, 459, 518
Protocatechuic, 518
Protocatechuic acid, 459
Protoescigenine, 459
Protohypericin, 459
Proto-isoerubosides, 459
Protopine, 459, 518
Protoprimulagenin A, 459
Protostemonine, 459
Protostephanine, 459
Protoberatrine, 459

- Provitamin A, 518
 Prudomenin, 459
 Prunasin, 459
Prunella vulgaris, 121, 215, 357, 399, 464, 493–495, 500, 521, 528
Prunus americana, 121, 215, 237, 358, 438, 459, 491, 499, 506, 509, 518, 524
Prunus domestica, 121, 215, 360, 375, 393, 499
Prunus glandulosa, 121, 360, 375
Prunus japonica, 121, 360, 375, 393
Prunus mume, 121, 215–216, 356, 375, 393, 437, 459, 473, 475, 492, 494, 497, 499, 509, 511, 515
Prunus padus, 121, 330, 375, 412, 423, 461
Prunus persica, 122, 216, 355, 368, 380–381, 393, 410, 421, 437, 447, 452, 474, 501
 Prussic acid, 518
 Pseudoaconitine, 459
 Pseudoanisatin, 459
 Pseudobrucine, 459
 Pseudocuramine, 518
 Pseudoephedrine, 518
 Pseudohypericin, 459, 518
 Pseudojervine, 459
 Pseudolycorine, 459
 Pseudomorphine, 459
 Pseudopelletierine, 459
 Pseudopurpurin, 459
Pseudostellaria heterophylla, 122, 354, 471
 Pseudostrychnine, 459
Psidium guajava, 122, 333, 374, 377–378, 380, 419, 436
Psoralea corylifolia, 122, 216, 328, 380, 395, 399, 425, 460, 493, 518
 Psoralen, 460, 518
 Psoralidin, 460
 Psoraline, 460, 518
Psychotria rubra, 122, 341, 371
Psychotria serpens, 122, 342, 371
 Psychotrine, 460
 Psyllic acid, 518
Pteris cretica, 122, 333, 471, 474
Pteris ensiformis, 122, 333, 471, 474
Pteris multifida, 122, 333, 471, 474
Pteris vittata, 122, 471, 474
Pteris wallichiana, 122, 333, 471, 474
Pterocarya stenoptera, 123, 334, 430, 459, 465
 Pterosterone, 460
 p-terpinene, 450
 p-tyrosol, 450
 Pu Gong Ying, 347
 Pu Gong Ying (Taiwan), 347
 Pu Gong Ying (Western), 347
 Pu Huang, 347
Pueraria lobata, 123, 216, 401, 412, 426, 460, 463, 484, 499, 508, 523
Pueraria montana, 123, 350, 369, 379, 418
Pueraria pseudo-hirsuta, 123, 401, 412, 426, 460, 463, 484
Pueraria thunbergiana, 123, 216–217, 350, 369, 379, 418, 499, 508, 518, 523
Pueraria vittata, 356
 Puerarin, 460, 518
 Pulegone, 518
 Pulin, 518
Pulsatilla ambigua, 123, 277, 327, 375, 448, 459
Pulsatilla cernua, 123, 327, 375, 448, 459
Pulsatilla chinensis, 123, 217, 277, 327, 375, 448, 459, 479, 491, 518
Pulsatilla vulgaris, 277, 509, 529
 Pulsatoside, 518
Punica granatum, 123, 217, 351, 407, 415, 427, 441, 452, 459, 480, 501, 516
 Puquiedinone, 460
 Purgative oil, 518
 Purine, 519
 Purpurea-glycosides A, 519
 Purpurea-glycosides B, 519
 Purpureal glycosides, 460
 Purpurin, 460, 519
 Putrescine, 460
 p-vinylguaiaicol, 450
 p-vinylphenol, 450
 Pyrethrins, 519
Pyrethrum cinerariifolium, 123, 217, 330, 369, 391, 471, 510, 515, 519, 522
Pyrethrum sinense, 123, 369, 391, 471
 Pyrocaledol, 460
 Pyrocatechic tannin, 460
 Pyrocatechine acid, 460
 Pyrogallol, 519
 Pyrogallol tannin, 460
Pyrola decorata, 124, 343, 377, 391, 421, 426, 442
Pyrola incarnata, 124, 343, 377, 421, 426, 442
Pyrola japonica, 124, 343, 377, 391, 421, 442
Pyrola rotundifolia, 124, 217, 343, 377, 421, 426, 442, 492, 496, 503, 522, 527
 Pyrrolidine, 460
 Pyrrolizidine, 519
 Pyrrolizidine alkaloids, 519
Pyrrosia adnascens, 124, 352, 375, 377, 414
Pyrrosia lingua, 124, 352, 405, 426
Pyrrosia petiolosa, 124, 352, 405, 426
Pyrrosia shearerii, 124, 352, 405, 426
 Pyrrol--methyl ketone, 460

Q

Qian Cao, 347
 Qian Hu, 347
 Qian Hu (Taiwan), 347
 Qian Jin Teng, 347
 Qian Jin Zi, 347
 Qian Li Guang, 347
 Qian Li Guang (European), 347
 Qian Qu Cai, 347
 Qian Ri Hong, 347
 Qian Shi, 347
 Qiang Cao, 347
 Qianhucocumarin, 460
 Qin Cai, 348
 Qin Jiu, 348
 Qing Feng Teng, 348
 Qing Guo, 348
 Qing Mu Xiang, 348
 Qing Ping, 348
 Qing Ye Dan, 348
 Qiong Zhi, 348
 Qiu Jiang, 348
 Qu Mai, 348
 Quan Yuan Guan Zhong, 348
 Quao Ye Ging Lan, 348
 Quassin, 460, 519
 Quassinoid, 519
 Querbrachitol, 460, 519
 Quercetagetin, 460
 Quercetagetrin, 460
 Quercetin, 519
 Quercetin glucoside, 461
 Quercetin-3-galactoside, 461
 Quercetin-3-galacto-xylo-glucoside, 461
 Quercetin-4-glucoside, 461
 Quercetin-monomethylether, 461
 Quercetol, 461
 Quercimeritrin, 461
 Quercitin, 461
 Quercitol, 461
 Quercitrin, 461
Quercus acutissima, 124, 277, 342, 389, 415, 433, 452
Quercus aliena, 124, 342, 389, 415, 433, 452
Quercus dentata, 124, 277, 342, 389, 415, 433
Quercus liaotungensis, 124, 277, 342, 389, 415, 433
Quercus mongolica, 124, 277, 342, 389, 415, 433
Quercus robur, 277, 499, 523
Quercus variabilis, 124, 277, 342, 389, 415
 Queretin, 461
 Querretin, 461
 Quian Niu, 348
 Quin Pi, 348

Quinene, 461
 Quinic acid, 461
 Quinochalone, 461
 Quinonic substance, 461
 Quinonoid, 461
 Quinoric acid, 461
 Quinquenosides, 461
 Quisqualic acid, 461
Quisqualis grandiflora, 124, 351, 461, 478
Quisqualis indica, 124, 351, 461, 478
Quisqualis longifolia, 124, 351, 461, 478
Quisqualis loureiri, 124, 351, 461, 478
Quisqualis pubescens, 124, 351, 461
Quisqualis sinensis, 124, 351, 461

R

Rabdosia lasiocarpus, 124, 345, 367, 449, 464, 475
Rabdosia rubescens, 125, 332, 449, 464
 Racemic acid, 461
 Raddanoside, 461
 Raddeanin A, 462
 Raffinose, 462
 Ramalic acid, 462
 Ranunculin, 462, 519
Ranunculus chinensis, 125, 277, 338, 375, 459
Ranunculus ficaria, 277, 491, 521, 529
Ranunculus japonicus, 125, 277, 345, 375, 459
Ranunculus occidentalis, 278
Ranunculus sarmentosa, 125, 277, 375, 459
Ranunculus sceleratus, 125, 277, 351, 367, 375, 459–460
Ranunculus ternatus, 125, 277, 345, 474, 483
 Raphanin, 462
 Raphanol, 519
 Raphanolide, 519
Raphanus sativus, 125, 217, 328, 462, 506, 528
Rauvolfia serpentina, 278, 489, 507, 519, 529
Rauvolfia verticillata, 125, 278, 343, 378, 453, 463, 468, 481
 r-cadinene, 461
 Rebaudiosides, 462
 Rebixanthin, 462
Rehmannia chinensis, 126, 332, 389, 462
Rehmannia glutinosa, 126, 217–218, 389, 462, 494, 511, 517, 519, 523
 Rehmannin, 462, 519
 Reliculine, 462
 Ren Dong, 348
 Ren Seng, 348
 Renifolin, 462
 Repandusinic acids, 462

- Repandusinin, 462
 Rerpinenol, 462
 Rescinnamine, 519
 Reserpine, 462, 519
 Resin, 462, 519
 Resin albaspidin, 462
 Resinous oil, 462
 Reticuline, 462
 Retinol, 462, 520
 Retroresine, 463
 r-glutamyl-valyl-glutamic acid, 461
 Rhamnazin, 463
 Rhamnetin, 463
 Rhamnetin-3-O-beta-D-galactoside, 520
 Rhamnocitrin, 463
 Rhamnodiastase, 463
 Rhamnose, 463
Rhamnus catharticus, 278, 491, 497, 501, 503, 505, 515, 528
Rhamnus davurica, 126, 278, 352, 372, 463
Rhamnus frangula, 278, 491, 497, 501, 503, 505, 515, 528
Rhamnus parvifolia, 126, 278, 352, 372, 463
Rhamnus purshianus, 278, 491, 497, 501, 503, 505, 515, 528
Rhaponticum uniflorum, 126, 343
 Rhein, 463, 520
 Rhein anthrones, 520
 Rhein aurantioobtusin, 463
 Rhein chrysarobin, 463
 Rhein monoglucoside, 463
Rheum koreanum, 126, 278, 372, 376, 384, 463, 468
Rheum officinale, 126, 218, 278, 354, 372, 376, 384, 387, 407, 463, 468, 491, 496, 501, 504, 520, 524
Rheum palmatum, 126, 218, 278, 354, 372, 376, 384, 407, 463, 468, 491, 496, 501, 504, 520, 524
Rheum tanguticum, 126, 218, 279, 372, 376, 384, 407, 463, 468, 491, 496, 501, 504, 520
Rheum undulatum, 126, 278, 354, 372, 376, 384, 407, 463, 468, 501, 504
Rhodea japonica, 126, 356, 463
 Rhodexins, 463
Rhodiola elongata, 126, 279, 336, 450, 463
Rhodiola rosea, 279, 502, 520
 Rhodioloside, 463, 520
Rhododendron anthopogon, 127, 279, 342, 466
Rhododendron dauricum, 127, 279, 376, 412, 417, 463
Rhododendron maximum, 279
Rhododendron molle, 127, 279, 326
Rhododendron mucronatum, 127, 279, 327, 367, 380, 396, 404, 412, 417, 450, 473
Rhododendron sinensis, 127, 279, 359, 375
 Rhodotoxin, 463
 Rhoeadine, 463
 Rhoeagenine, 463
 Rhomotoxin, 463
Rhus chinensis, 127, 280, 356, 415, 457, 462
Rhus cotinus, 127, 356, 415, 462
Rhus glabra, 280, 488, 526–527
Rhus javanica, 127, 356, 415, 462
Rhus osbeckii, 127, 356, 415, 462
Rhus radicans, 280, 488, 527
Rhus semialata, 127, 280, 347
Rhus toxicodendron, 280, 488, 526–527
Rhus verniciflua, 128, 280, 334, 462
 Rhymohydroquinone, 463
 Rhynchophylline, 463
 Rhyncophylline, 463, 520
 Ri Jian Ca Sha Jiang Cao, 348
Ribes lacustre, 280, 491
Ribes mandshurica, 128, 280, 350, 437, 449
Ribes nigrum, 280, 491, 497, 515, 528
 Riboflavin, 463, 520
 Ricin, 520
 Ricinine, 463, 520
 Ricinoleic acid, 520
 Ricinolein, 463
Ricinus communis, 128, 218, 328, 389, 399, 427, 449, 463, 471, 509, 520
 r-linolenic acid, 461
 Robinin, 463
 Ron Yen Raw, 348
 Rong Cai, 348
 Rong Shu, 348
 Rorifamide, 464
 Rorifone, 464
Rorippa indica, 128, 280, 336, 373, 418, 464
Rorippa islandica, 128, 280, 336, 373, 418, 464
Rorippa montana, 128, 373, 418, 464
Rorippa nasturtium-aquaticum, 280, 501–502, 505, 514, 519
Rosa acicularis, 128, 218, 281, 340, 389, 408, 410, 415, 440, 479, 482, 497, 504, 509, 511, 515, 528
Rosa amygdalifolia, 128, 340, 408, 410, 415, 440, 479, 482
Rosa canina, 281, 497, 504, 511, 515, 528
Rosa chinensis, 128, 281, 359
Rosa damascena, 281, 497, 504, 511, 515, 528
Rosa davurica, 128, 340, 408, 410, 415, 440, 479, 482
Rosa gallica, 281, 497, 504, 511, 515, 528
Rosa indica, 128

Rosa koreana, 128, 340, 408, 410, 415, 440, 479, 482
Rosa laevigata, 128, 408, 410, 415, 440, 479, 482
Rosa maximowicziana, 128, 415, 440, 479, 482
Rosa multiflora, 129, 281, 330, 379, 429, 443, 461
Rosa rugosa, 129, 219, 281, 345, 380, 398, 411, 430, 439, 451, 464, 497, 509, 511, 515, 528
 Rosagenin, 520
 Rosenoxide, 464
 Rotenone, 464, 520
 Rotundone, 464
 Rotunol, 464
 Rou Dau Kou, 348
 Rovidine, 464
 Roxburghine D, 464
 Ru Xiang, 348
 Ruberythric acid, 520
 Rubescensine B, 464
 Rubescensins, 464
Rubia akane, 129, 281, 337, 371, 460, 464
Rubia chinensis, 129, 281, 347, 371, 443, 459–460, 464
Rubia cordifolia, 129, 281, 347, 371, 443, 459–460, 464
Rubia mungista, 129, 281, 347, 371, 443, 459, 464
Rubia sylvatica, 129, 281, 347, 371, 443, 459, 464
Rubia tinctorum, 281, 491–492, 507, 519–520
 Rubiadin-I-methyl ether, 464
 Rubichloric acid, 464
 Rubierythrinic acid, 464
 Rubijervine, 464
 Rubricauloside, 464
 Rubrierythrinic acid, 464
Rubus chamaemorus, 282, 488, 493, 520, 526
Rubus coreanus, 129, 219, 282, 334, 387, 472, 480, 515, 524
Rubus fruticosus, 282, 515, 524
Rubus idaeus, 282, 503–504, 524
Rubus matsumuranus, 129, 334, 472, 480
Rubus parvifolius, 129, 282, 336
Rubus saxatilis, 129, 334, 472, 480
 Rui Ye Ren Dong, 348
Rumex acetosa, 130, 282, 353, 392, 407, 423, 445, 461, 481–483
Rumex acetosella, 130, 219, 353, 392, 407, 423, 445, 461, 481–483, 491, 497, 515, 524
Rumex amurensis, 130, 392, 407, 423, 445, 461, 481–483
Rumex aquaticus, 130, 219, 353, 392, 407, 423, 445, 461, 481–483, 491, 497, 515–516, 524
Rumex crispus, 130, 219, 282, 359, 392, 407, 491, 497, 514–515, 524, 529

Rumex gmelini, 130, 353, 407, 423, 461, 481–483
Rumex longifolius, 130, 353, 423, 461, 481–483
Rumex maritimus, 130, 353, 423, 461, 481–483
Rumex marshallianus, 130, 353, 423, 461, 481, 483
Rumex obtusifolia, 282, 491, 515–516, 524
Rumex patientia, 130, 355, 376, 408, 470
Rumex stenophyllus, 130, 282, 353, 423, 461, 481, 483
Rumex thyrsiflorus, 130, 353, 423, 461, 481, 483
 Rutaecarpine, 464
 Rutin, 464, 520

S

Sabinen, 520
 Sabinene, 464, 520
 Saccharase, 464
 Saccharides, 464
 Saccharose, 464
 Safflomin A, 465
 Safflower yellow, 465
 Safranal, 520
 Safole, 465, 520
Sagittardia sagittifolia, 130, 330, 379, 400
 Saikosaponins, 465
 Saikosides, 520
 Salicarin, 465, 520
 Salicifoline, 465
 Salicin, 465, 520
 Salicinase, 465
 Salicortin, 465, 520
 Salicylates, 520
 Salicylic acid, 465, 520
 Salicylic compounds, 520
 Salidroside, 465
 Saligenin glucoside, 465
 Salireposide, 465
Salix alba, 283, 503, 505, 516, 520, 524, 526
Salix babylonica, 130, 282, 343, 460, 465
Salix discolor, 283, 503, 505, 516, 520, 524, 526
Salix matsudana, 130, 282, 343, 460, 465
Salix microstachya, 130, 282, 343, 460, 465
Salsola collina, 130, 362, 383, 465
 Salsolidine, 465
 Salsoline, 465
 Saluinanin, 465
Salvia chinensis, 131, 283, 351, 468
Salvia clevelandii, 283
Salvia coccinea, 131, 219, 283, 362
Salvia divinorum, 283
Salvia miltiorrhiza, 131, 283, 354, 369, 397, 442, 474

- Salvia officinalis*, 283, 503, 511, 520
Salvia plebeia, 131, 283, 342, 411, 421
Salvia pogonocalyx, 131, 283, 351, 468
Salvia przewalskii, 131, 283, 468
 Salvigenin, 465
 Salvin, 520
 Salviol, 465
Sambucus canadensis, 284, 499, 503, 523, 527–528
Sambucus formosana, 131, 283, 337, 372
Sambucus latipinna, 131, 283, 339
Sambucus manshurica, 131, 283, 339
Sambucus nigra, 284, 499, 503, 523, 527–528
Sambucus peninsularis, 131, 283, 339
Sambucus racemosa, 284, 493, 499, 505, 520
Sambucus sieboldiana, 131, 283, 339
Sambucus williamsii, 131, 283, 339
 San Bai Cao, 348
 San Dian Jin Cao, 348
 San Hai Ton, 348
 San Hu Ci Tong, 349
 San Hu Shu, 349
 San Hu You Tong, 349
 San Jian Shan, 349
 San Long Zhi, 349
 San Qi, 349
 San Se Xian, 349
 San Ya Ko, 349
 San Ye Wu Jia, 349
 Sang Gen Bai Pi, 349
 Sang Zhi, 349
 Sanguinarine, 465
Sanguisorba grandiflora, 132, 363, 376, 388, 396, 410, 422, 442, 465, 484–485
Sanguisorba officinalis, 132, 220, 363, 376, 388, 396, 410, 422, 442, 465, 469, 484–485, 500, 505, 521, 524
Sanguisorba parviflora, 132, 363, 376, 388, 396, 410, 422, 442, 465, 469, 484–485
Sanguisorba xtenuifolia, 132, 363, 376, 388, 396, 410, 422, 442, 465, 469, 484–485
 Sanguisorbic acid, 521
 Sanguisorbins, 465
 Sanjoinines, 465
Sansevieria trifasciata, 132, 334, 368, 420, 449
 Sanshol, 465
 Santalic acid, 465
 Santalin, 465
 Santalols, 521
 Santalone, 465
Santalum album, 132, 220, 354, 373, 403, 428, 465, 475, 478, 499, 521–522
Santalum myrtifolium, 132, 354, 373, 428, 465, 475, 478
Santalum verum, 132, 354, 373, 428, 465, 475, 478
 Santamarine, 465
 Santene, 465
 Santhophylls, 521
Sapindus mukorossi, 132, 356, 443
Sapium discolor, 133, 350
Sapium sebiferum, 133, 356
 Sapnons, 465
 Sapogenins, 466, 521
 Saponaretin, 466
Saponaria officinalis, 133, 220, 355, 519, 521, 523
Saponaria vaccaria, 133, 355
 Saponarin, 466
 Saponartin-4'-O-glucoside, 466
 Saponin, 466, 521
 Saponin akebin, 466
 Saponin alpha-methylester, 466
 Saponin beta-methylester, 466
Sarcandra glabra, 133, 352, 415, 473
 Sarcostin, 467
Sargassum fusiforme, 284
Sargassum officinalis, 284
Sargassum pallidum, 133, 284, 335, 371, 448, 457
Sargentodoxa cuneata, 133, 337, 369
 Sarmentosin, 467
 Sarmentoslin, 467
 Sarmutside, 467
 Sarolactone, 467
 Sarothamine, 467
 Sarracine, 467
 Sarsapic acid, 521
 Sarsasapogenin, 467
 Sativol, 467
 Saturated acids, 467
Saururus chinensis, 133, 348, 374, 380, 423, 427, 461
 Saussarine, 467, 521
Saussurea japonica, 133, 284, 346, 454, 467
Saussurea lappa, 133, 220, 284, 346, 454, 467, 491, 519, 521–522, 525
 Savinin, 467
 Scabioside, 521
Schisandra arisanensis, 133, 357, 467
Schisandra chinensis, 134, 220–221, 403, 467, 510, 517, 528
Schisandra sphenanthera, 133, 467
 Schisantherins, 467
 Schizandrer, 467
 Schizandrin, 467
 Schizandrol, 467
Schizonepeta multifida, 134, 340, 387, 400, 421, 472

- Schizonepeta tenuifolia*, 134, 221, 340, 387, 400, 421, 472, 510
 Sciadopitysin, 467, 521
Scolopendrium subspinipes, 356
Scopalia dulcis, 134, 355, 374, 406, 421, 424, 465, 474
Scopalia tangutica, 134, 349, 376, 423
 Scopanol, 467
 Scoparoside, 521
 Scoplin, 467
 Scopolamine, 467
 Scopoletin, 467, 521
 Scopoline, 467
 Scopolomine, 467
 Scordinins, 521
 Scoulerine, 467
Scrophularia buergeriana, 134, 358, 368, 420, 425, 450, 467
Scrophularia kakudensis, 134, 358, 368, 420, 425, 450, 467
Scrophularia ningpoensis, 134, 221, 358, 368, 420, 425, 450, 467, 488, 493, 503, 506, 516
Scrophularia oldhami, 134, 358, 368, 420, 425, 450, 467
Scrophularia puergeriana, 134, 358, 368, 420, 425, 450, 467
 Scrophularin, 467
 Scutellarein heteroside, 468
Scutellaria baicalensis, 135, 221, 284, 338, 368, 380, 470, 483, 493–494, 496, 521, 523–524, 529
Scutellaria formosana, 135, 284, 338, 380–381
Scutellaria grandiflora, 135, 338, 368, 380, 470, 483
Scutellaria lanceolaria, 135, 338, 368, 380, 470, 483
Scutellaria lateriflora, 284, 493–494, 496, 521, 523, 529
Scutellaria macrantha, 135, 221, 338, 368, 380, 470, 483, 493–494, 496, 521, 523–524, 529
Scutellaria rivulararis, 135, 338, 368, 380, 470, 483
Scutellaria viscidula, 135, 338, 368, 380, 470, 483
 Scutellarin, 468, 521
 Se Gua, 349
 Sebiferic acid, 468
 Secalose, 468
 Secoiridoid glucosides, 521
 Secoiridoids, 521
 Secologanin, 468
Securinega suffruticosa, 135, 360, 372, 404, 468
Securinega virosa, 135, 327, 404, 414, 447, 481
 Securinine, 468
 Securinol, 468
 Securitinine, 468
 Sedacrine, 521
 Sedacryptine, 521
 Sedinine, 521
 Sedocaulin, 468
 Sedocitrin, 468
 Sedoheptose, 468
 Sedoheptulose, 468
Sedum acre, 285, 502, 513, 521
Sedum aizoon, 135, 285, 340, 377, 468
Sedum erythrostichum, 135, 285, 340, 467–468
Sedum formosanum, 135, 285, 334, 375
Sedum kamschaticum, 135, 285, 340, 467–468
Sedum lineare, 135, 285, 334, 468
Sedum sarmentosum, 136, 285, 330, 340, 404, 444
Sedum verticillatum, 135, 285, 340, 467–468
Selaginella doederleinii, 136, 351, 371, 478
Selaginella involvens, 136, 351, 371, 400, 478
Selaginella tamarisina, 136, 341, 374, 377, 421, 426, 471, 478
 Selenium, 521
 Selinene, 468
Semiaquilegia adoxoides, 136, 354
 Sempervirine, 468
Senecio argunensis, 136, 285, 347, 399, 432
Senecio aureus, 286, 508, 519, 521, 526
Senecio campestris, 137, 285, 335, 371
Senecio cannabifolius, 137, 285, 337, 377, 450
Senecio nemorensis, 136, 347, 399, 432
Senecio scandens, 136, 347, 399, 432
Senecio vulgaris, 137, 221, 285, 347, 468, 508, 519, 521, 526, 529
 Senecionine, 468, 521
 Seneciphyline, 521
 Sennoside A, 521
 Sennoside B, 522
 Sennosides, 468
 Seratonin, 468
 Serine, 468, 522
 Serotonin, 468, 522
 Serpentine, 468
 Serratenediol, 468
 Sesamin, 468
 Sesamol, 468
Sesamum indicum, 137, 221–222, 356, 468, 482, 503, 510, 514, 518, 528
Sesbinia grandiflora, 137, 331, 370, 484
Sesbinia javanica, 137, 354, 400
Sesbinia sesbin, 137, 338, 418, 479
 Sesquijasmine, 468
 Sesquilignans, 468
 Sesquiterpene, 468, 522
 Sesquiterpene alcohol, 469, 522
 Sesquiterpene alkaloids, 469

- Sesquiterpene glucosides, 469
Sesquiterpene hydrocarbons, 522
Sesquiterpene lactone, 469, 522
Sesquiterpenes patchoulol, 522
Sesquiterpenoid, 522
s-guaiazulene, 464
Sha Cao, 349
Sha Cha Hua, 349
Sha Gen Cai, 349
Sha Gui Hua, 349
Sha Gui Hua (Taiwan), 349
Sha Hong Fan Cao, 349
Sha Ji, 349
Sha Jiang Cao, 349
Sha Ma, 349
Sha Seng, 349
Sha Yuan Zi, 349
Shan, 349
Shan Ci Ko, 349
Shan Cong Zi, 349
Shan Dou Gen, 350
Shan Ge, 350
Shan Guo, 350
Shan Hua Jiao, 350
Shan Jiang, 350
Shan Jiu, 350
Shan Liu Jiu, 350
Shan Ma Zi, 350
Shan Na, 350
Shan Pu Tao, 350
Shan Teng Zi, 350
Shan Wo Ju, 350
Shan Yan Cao, 350
Shan Yao, 350
Shan Ye Man Shi Song, 350
Shan Ye Shi Song, 350
Shan Zha, 350
Shan Zhi Ma, 350
Shan Zhu Yu, 350
Shang Han Cao, 350
Shang Lu, 350
Shanzhiside, 469
Shao Ci Wu Jia, 350
Shao Lan, 350
She Cheung Zi, 350
She Gan, 350
She Ma, 350
She Mei, 351
Shen Jin Cao, 351
Shen Liu, 351
Sheng Hong Yu, 351
Sheng Jiang, 351
Sheng Ma, 351
Sheng Teng, 351
Shi Cao, 351
Shi Da Chuan, 351
Shi Diao Lan, 351
Shi Dou, 351
Shi Hong Hua, 351
Shi Ji Qing, 351
Shi Jian Chuan, 351
Shi Jiun Zi, 351
Shi Juan Bai, 351
Shi Li, 351
Shi Liu Pi, 351
Shi Long Nei, 351
Shi Luo, 351
Shi Mu Zi, 351
Shi Nan Ye, 351
Shi Shan, 351
Shi Shang Bai, 351
Shi Sheng Yu, 351
Shi Song, 351
Shi Suan, 351
Shi Suan Hua, 351
Shi Wei, 352
Shi Wu Tou, 352
Shi Zhu Yu, 352
Shi Zi, 352
Shibuol, 469
Shikimic acid, 469, 522
Shikonin, 469
Shionon, 469
Shishonin, 469, 522
Shobakunine, 469
Shogaols, 522
Shong Jie Fong, 352
Shu Gi, 352
Shu Li, 352
Shu Liang, 352
Shu Long, 352
Shu Qu Cao, 352
Shu Shu, 352
Shu Yu, 352
Shuang Mian Ci, 352
Shui Cai, 352
Shui Fei Ji, 352
Shui Gui Jiao, 352
Shui Hong Cao, 352
Shui Huang Pi, 352
Shui Jin, 352
Shui Ku Shi, 352
Shui Lian, 352
Shui Man Chin, 352
Shui Shai, 352
Shui Shai Gen, 352
Shui Su, 352
Shui Tuan Hua, 352
Shui Xian Cao, 353
Shui Yang Mei, 353

- Shui Yang Mei Gen, 353
 Shui Yu, 353
 Shun, 353
 Si Gua, 353
 Si Yang Bai Hua Cai, 353
 Si Yang Seng, 353
 Si Ye Lian, 353
 Si Ye Lu, 353
 Si Zhao Hua, 353
 Siang Si Zi, 353
 Sien Feng Cao, 353
Silene jennisensis, 138, 286, 336, 367–368
Silene ocaulis, 286, 488, 501, 523
Silene virginica, 286, 488, 501, 523
 Silibinin, 522
 Silica, 469
 Silicates, 522
 Silicic acid, 469, 522
 Silybin, 469
 Silybinomer, 469
Silybum marianum, 138, 222, 352, 469, 503, 522
 Silyckristin, 469
 Silydiamin, 469
 Silymarin, 469, 522
 Silymarin polyacetylenes, 522
 Simiarenol, 469
 Simplexine, 469
 Sinactine, 469
 Sinalbine, 469
 Sinapic acid, 469
 Sinapine, 469
Sinapis alba, 138, 222, 327, 377, 409, 433, 443, 454, 513
 Sinapyl aldehyde, 469
 Sinigrin, 469
 Sinigroside, 469
 Sinoacutine, 469
 Sinocecatine, 470
 Sinodiosgenin, 470
 Sinomenine, 470
Sinomenium acutum, 138–139, 334, 348, 369, 427, 469–470, 479
Sinomenium diversifolium, 138, 334
 Sinoside, 470
 Sinostroside, 470
 Sioimperatorin, 470
 Sioquercitrin, 470
 Siosakuranetin, 470
 Sitosterol, 470, 522
 Sitosteryl glucopyranosid, 470
 Sitosteryl- α - β -d-glucoside, 470
 Skimmianine, 470
 Skullcap flavones, 470
 Slliptinone, 470
 Sloeemodin, 470
 Smilacin, 470
Smilacina japonica, 139, 286, 343
Smilacina stellata, 286
Smilax aristolochiifolia, 286, 494, 512, 517, 519, 521, 523
Smilax china, 139, 222, 286, 355, 432, 445, 462, 470, 474, 478, 494, 512, 517, 519, 521, 523
Smilax nipponica, 139, 286, 355, 432, 445, 462, 470, 474, 478
Smilax sieboldii, 139, 286, 355, 432, 445, 462, 470, 478
 Solamargine, 470, 522
 Solanidine, 470
 Solanigrines, 470
 Solanine, 470, 522
 Solanocapsin, 470
 Solanocapsine, 470
 Solanocarpine, 522
Solanum aculeatissimum, 139, 222, 287, 358, 383, 470, 495, 518, 528
Solanum biflorum, 139, 287, 337
Solanum capsicastrum, 139, 287, 345
Solanum dulcamara, 287, 522, 525
Solanum incanum, 139, 287, 338, 371, 470
Solanum indicum, 140, 287, 405, 439
Solanum lyratum, 140, 287, 327, 369, 378, 391, 445, 469–471, 478
Solanum melongena, 140, 222–223, 287, 327, 369, 378, 391, 445, 470–471, 478, 495, 518, 528
Solanum nigrum, 140, 223, 287, 343, 463, 470, 500, 515, 522
Solanum pseudo-capsicum, 140, 287, 332, 470
Solanum tuberosum, 287, 493, 528
Solanum verbascifolium, 140, 287, 350, 470
Solanum xanthocarpum, 288, 522–523
 Solasodine, 470, 522
 Solasurine, 470
 Soldulcamaridine, 522
Solidago canadensis, 140, 223, 360, 461, 496, 507, 520–521, 525
Solidago dahurica, 141, 360, 379, 398, 429
Solidago pacifica, 141, 360, 379, 398, 429
Solidago virgaurea, 141, 223, 360, 379, 398, 429, 496, 507, 520–521, 525
Sonchus arvensis, 141, 341, 471, 475
Sonchus oleraceus, 141, 471, 475
 Song Ji Shang, 353
 Song Lo, 353
 Song Ta, 353
 Song Ye Mo, 353
Sophora alopecuroides, 141, 341, 399–400
Sophora flavescens, 141, 341, 399–400, 430
Sophora japonica, 141, 223, 337, 427, 464, 470

- Sophora subprostrata*, 141, 350, 375, 441, 450, 470
Sophora tomatosa, 141, 342, 399
 Sophorabioside, 470
 Sophoradin, 470
 Sophoradiol, 471
 Sophoraflavonololide, 471
 Sophoranochromene, 471
 Sophoranone, 471
 Sophoricoside, 471
 Soranjudiol, 471
 Sorbitol, 522
Sorbus alnifolia, 142, 288, 353, 412, 425, 451
Sorbus amurensis, 142, 353, 412, 425, 451
Sorbus aucuparia, 288, 515, 525, 528
Sorbus poshuashanensis, 142, 353, 412, 425, 451
 Sotelsuflavone, 471
 Sparteine, 471, 522
Spatholobus suberectus, 142, 339, 475
 Spathulenol, 471
 Spemine, 471
 Spermindine, 471
Sphenomeris chusana, 142, 356, 453, 471
 Sphenone A, 471
 Sphondin, 523
Spilanthes acmella, 142, 343, 355, 372, 381, 443, 470–472
 Spilanthol, 471
 Spinasterol, 471, 523
Spiraea salicifolia, 142, 288, 358, 371, 389
Spiraea ulmaria, 288, 503, 506, 520, 525
Spirodela polyrhiza, 142, 334, 377
 Spirostanol saponins, 471
 Spongesterol, 471
 Squalene, 471
 Stachydrine, 471, 523
 Stachydrine chloride, 471
 Stachyose, 471
Stachys baicalensis, 143, 288, 352, 371, 471
Stachys chinensis, 143, 288, 352, 371, 471
Stachys japonica, 143, 288, 352, 371, 471
Stachys officinalis, 288, 494, 497, 523, 525
 Starch, 471, 523
Stauntonia hexaphylla, 143, 359, 471
 Stauntonin, 471
 Stearic acid, 471, 523
 Stearin acid, 471
Stellaria alsine, 143, 354
Stellaria media, 143, 223–224, 333, 448, 461, 498, 503, 514, 527–528
Stemona japonica, 143, 326, 427, 459, 472
Stemona tuberosa, 143, 332, 427, 459, 472
 Stemonidine, 472
 Stemonine, 472
Stephania cepharantha, 143, 340, 381, 390, 421, 427
Stephania hernendifolia, 144, 367, 411, 421, 425
Stephania japonica, 144, 347, 408, 422, 440
Stephania sinica, 144, 337, 431, 472, 479
Stephania tetrandra, 144, 333, 401, 411
 Stephanine, 472
 Stephanoline, 472
 Stepharine, 472
 Stepharotrine, 472
 Stephisoferuline, 472
 Stepholidine, 472
 Stepinonine, 472
 Steponine, 472
 Stereoisomer, 472
 Sterins, 523
 Steroid alkaloid glycosides, 472
 Steroid glycosides, 472
 Steroidal, 523
 Steroidal alkaloids, 523
 Steroidal saponins, 472, 523
 Steroids, 523
 Sterol, 472, 523
Stevia rebaudiana, 144, 354, 379, 462, 472
 Steviolbioside, 472
 Stevioside, 472
 Sticinic acid, 523
 Stictic acid, 523
 Stigmast-4-3-one, 523
 Stigmast-7-enol, 472
 Stigmasterol, 472, 523
 Strophalloside, 473
Strophanthus divaricatus, 145, 288, 359, 389, 405, 470
Strophanthus gratus, 289, 496
 Strophantidin, 473
 Strospeptide, 473
 Strumaroside, 473
 Strychnine, 473, 523
Strychnos nux-vomica, 145, 224, 333, 442, 473, 507, 511
Strychnos pierriana, 145, 344, 447, 459, 473, 483
 Stylopine, 473
 Styracin, 473
Styrax benzoin, 145, 289, 373, 380, 394, 473, 481, 493, 523, 527
Styrax suberifolus, 145, 289, 336
Styrax tonkinensis, 145, 289, 326, 373, 380, 394, 473, 481
 Su Cao, 353
 Su Mu, 353
 Su Yang, 353
 Suan Cheng, 353
 Suan Mo, 353
 Suan Zao, 353

Suan Zao Ren, 353
 Suberins, 523
 Succinacid, 473
 Succinic acid, 473
 Sucrose, 473
 Sugars, 523
 Sui Me Jie, 353
 Sui Mi Jie, 354
 Sumaresinolic acid, 473
 Sumaresinolic acid esters, 523
 Sun Cha, 354
 Suo Lou Zi, 354
Swertia chirata, 289, 489–490, 502, 507, 529
Swertia diluta, 145, 289, 348
Swertia pseudochinesis, 145, 289, 332, 380, 402, 422, 440–441, 473
 Swertiamarin, 473, 523
 Swertifrancheseide, 473
 Swertisin, 473
 Sworoside, 473
 Synephrine, 473
Syringa dilatata, 146, 342, 367, 465, 473
Syringa oblata, 146, 342, 367, 465, 473
Syringa reticulata, 146, 342, 367, 465, 473
Syringa suspensa, 146, 224, 342, 367, 465, 473, 507, 510
Syringa vulgaris, 146, 224, 367, 465, 473, 507, 510
 Syringaldehyde, 523
 Syringaresinol, 473
 Syringic acid, 473, 523
 Syringic aldehyde, 473
 Syringin, 473
Syzgium aromaticum, 146, 224, 290, 379, 387, 396, 407, 502, 505, 522, 529
Syzgium cuminii, 146, 290, 336, 368, 384, 407–408, 411

T

Tadeonal, 473
Tagetes erecta, 146, 224, 290, 330, 374, 400, 444, 473, 510
Tagetes lucida, 290, 498, 504–505, 519, 525
Tagetes minuta, 290, 498, 504–505, 519, 525
Tagetes patula, 147, 225, 290, 355, 420, 434, 448, 452, 457, 460, 473, 501, 510, 514, 523
 Tagetone, 473, 523
 Tai Huang, 354
 Tai Zi Shen, 354
 Talatisamine, 473
 Talictrine, 474

Taliumn triangulare, 147, 355
Tamarindus indicus, 147, 343, 377, 381, 387, 407, 418, 480, 484
Tamarix juniperina, 147, 351, 461
 Tan Seng, 354
 Tan Xian, 354
 Tang Jie, 354
 Tang Song Cao, 354
 Tang Song Cao (Taiwan), 354
 Tangeratin, 474
 Tangshenoside, 524
 Tannates, 474
 Tannic acid, 474, 524
 Tannins, 474, 524–525
 Tanshinol, 474
 Tanshinone, 474
 Taraxacerin, 474
 Taraxacin, 474, 525
Taraxacum formosanum, 147, 347, 391, 475
Taraxacum mongolicum, 148, 347, 370, 376, 379, 381, 399, 432, 443, 445, 468, 471, 474–475, 481, 484
Taraxacum officinale, 148, 225, 347, 376–377, 388, 391, 396, 422, 442, 471, 482, 505, 507, 510, 518, 525, 528
Taraxacum sinicum, 148, 370, 376, 379, 381, 399, 432, 443, 445, 468, 471, 474, 481, 484
 Taraxanthin, 474
 Taraxasterol, 475, 525
 Taraxasteryl acetate, 475
 Taraxasteryl palmitate, 475
 Taraxerol, 475, 525
 Taraxerone, 475
 Taraxeryl acetate, 475
 Taraxol, 475
 Taraxsteryl acetate, 475
 Tartalic acid, 525
 Tartaric acid, 475
 Taspine, 475
 Taurine, 475
 Taxaxsteryl acetate, 475
 Taxettin, 475
 Taxifolin, 475
 Taxinine E, 475
 Taxol, 475, 525
Taxus brevifolia, 290, 525
Taxus chinensis, 148, 290, 366, 368, 380, 475, 484
Taxus cuspidata, 148, 290, 362, 366, 368, 380, 390, 475, 484
Taxus yunnanensis, 148, 290, 366, 368, 380, 475, 484
 Tazettine, 475
 Tectoridin, 475, 525
 Ten Min Qing, 354

- Teng Hu Tin Chi, 354
 Tenuidine, 475
 Tenuifolin, 475
Tephrosia purpurea, 148, 290, 338, 402, 461, 464
Tephrosia virginiana, 290, 500, 520, 525
 Tephrosin, 475, 525
 Teresantallic, 475
 Teresantalol, 475
Terminalia chebula, 149, 225, 336, 390, 407, 491, 496, 519
 Terpene, 475, 525
 Terpeneol, 476
 Terpenoids, 525
 Terpenylacetate, 476
 Terpinen-4-ol, 476
 Terpinene, 525
 Terpeneol, 476
 Terpeneol-4, 476
 Terpinol, 476
 Terpinolene, 476
 Terrestriamide, 525
 Teteracylic acid, 476
 Tetraacetylbrazilin, 476
 Tetradecen-4-oic acid, 476
Tetragonia tetragonoides, 149, 333, 369, 391, 454, 478
 Tetragonin, 476
 Tetrahydro-cannabinols, 476, 525
 Tetrahydrocolumbamine, 476
 Tetrahydrocoptisine, 476
 Tetrahydroharman, 476
 Tetrahydropalmatine, 525
 Tetrahydroxy flavone, 476
 Tetramethylpyrazine, 476
 Tetramethylpyrazinesteroids, 476
 Tetrandrine, 476, 525
 Tetulinic acid, 476
 Thalfotidine, 476
 Thalicarpine, 476, 525
Thalictrum aquilegifolium, 149, 291, 354, 372, 381, 397, 413, 417, 421, 427–428, 450, 454, 463, 476–477
Thalictrum baicalense, 149, 291, 354, 372, 381, 397, 413, 417, 421, 427–428, 450, 454, 463, 476–477
Thalictrum dasycarpum, 291, 494, 498–499, 509, 514, 525–526
Thalictrum fauriei, 149, 291, 354, 372, 381, 397, 413, 417, 421, 427–428, 450, 463, 476–477
Thalictrum foetidum, 149, 354, 388, 413, 428, 451, 477
Thalictrum glandulissimum, 150, 291, 354, 428, 466, 474
Thalictrum ichangense, 150, 291, 344, 428, 466, 474
Thalictrum occidentale, 291, 494, 498–499, 509, 514, 525–526
Thalictrum petaloideum, 149, 291, 354, 372, 381, 397, 417, 421, 427–428, 450, 463, 476–477
Thalictrum simplex, 149, 291, 354, 372, 381, 397, 417, 427, 450, 463, 476–477
Thalictrum squarrosum, 149, 354, 372, 381, 417, 427, 450, 463, 476–477
Thalictrum thunbergii, 149, 354, 372, 381, 417, 427, 450, 463, 476
 Thalidasine, 476, 525
 Thalidezine, 476
 Thalispavine, 525
 Thalphinine, 477
 Thल्पine, 477
 Thamnolic, 525
Thea assamica, 150, 329, 457, 474, 477, 483
Thea bohea, 150, 329, 474, 477, 483
Thea cantoniensis, 150, 329, 474, 477, 483
Thea chinensis, 150, 329, 474, 477, 483
Thea cochinchinesis, 150, 329, 474, 477, 483
Thea sinensis, 150, 329, 474, 477, 483
Thea viridis, 150, 329, 474, 477, 483
 Theasaponin, 477
 Thebaine, 477, 526
 Thelic simidine, 477
 Theobromine, 477
 Theophylline, 477, 526
 Theronine, 477
Thesium chinense, 150, 327
 Theveside, 477
Thevetia peruviana, 150, 225, 337, 453, 477, 481, 492, 515
 Thevetin A, 477
 Thevetin B, 477
 Theviridoside, 477
 Thiamine, 477, 526
 Thiophenes, 526
Thlaspi arvense, 150, 225, 340, 412, 488, 490, 503, 506, 527
 Threonin, 477
 Threonine, 477
Thuja chinensis, 150, 291, 329, 374, 378, 421, 443, 477
Thuja koraiensis, 150, 291, 329, 374, 378, 412, 421, 443, 477
Thuja occidentalis, 291, 503, 513, 529
Thuja orientalis, 150, 291, 329, 374, 378, 421, 443, 477
 Thujone, 477, 526
 Thujyl alcohol, 526
 Thymol, 477, 526

- Thymus amurensis*, 151, 292, 332, 374, 377, 450, 468, 480, 483, 485
Thymus capitatus, 292, 491, 511, 521, 525–526
Thymus citriodorus, 292, 491, 511, 521, 525–526
Thymus disjunctus, 151, 292, 332, 374, 377, 450, 468, 480, 483, 485
Thymus kitagawianus, 151, 292, 332, 374, 377, 450, 468, 480, 483, 485
Thymus komarovii, 292, 332, 374, 377, 450, 468, 480, 483, 485
Thymus praecox, 292, 491, 511, 521, 525–526
Thymus przewalskii, 151, 292, 332, 374, 377, 450, 468, 480, 483, 485
Thymus pulegioides, 292, 491, 511, 521, 525–526
Thymus quinquecostatus, 151, 292, 332, 374, 377, 450, 468, 480, 483, 485
Thymus serpyllum, 292, 491, 511, 521, 525–526
Thymus vulgaris, 151, 226, 292, 366, 373–374, 393, 417, 434, 476, 491, 511, 521, 525–526
 Tian Bao Cao, 354
 Tian Cai, 354
 Tian Hua Fen, 354
 Tian Ja Cai, 354
 Tian Jiu, 354
 Tian Kui Zi, 354
 Tian Ma, 354
 Tian Men Dong, 354
 Tian Nan Xing, 354
 Tian Peng Cao, 354
 Tian Qi, 354
 Tian Qing, 354
 Tian We Cao, 355
 Tian Xuan Hua, 355
 Tian Zhu Cao, 355
 Tie Dao Mu, 355
 Tie Shu, 355
 Tie Xian Cai, 355
 Tie Xian Cao, 355
 Tie Xian Jiu, 355
 Tie Xian Lian, 355
 Tienmulilmine, 477
 Tienmulilminine, 477
 Tiger nut oil, 526
 Tiglic acid, 477
 Tigloidine, 477
 Tigononin, 478, 526
Tilia amurensis, 151, 292, 362
Tilia cordata, 292, 495, 503, 517, 525–527
Tilia europaea, 292, 495, 503, 517, 525–527
Tilia mandshurica, 151, 292, 362
Tilia mongolica, 151, 292, 362
 Tiliadine, 526
 Ting Li Zi, 355
Tinnevely senna, 151, 333
 Tinnins, 526
 Tirucallos, 478
 Tithymalin, 478
 Tocopherol, 478, 526
 Tohogenol, 478
 Tomentogenin, 478
 Tong Guan Teng, 355
 Toosendanin, 478
 Toralacton, 478
 Torosachrysone, 478
 Totarol, 478
 Tou Gu Cao, 355
 Tou Ren, 355
 Toxicodendrol, 526
 Tracheloside, 478
Trachelospermum jasminoides, 151, 344, 438, 447, 478
Trachycarpus wagnerianus, 151, 363, 415, 438, 464
Trans-5, cis-9-octadecadienoic acid, 526
Trans-5-hexadecenoic acid, 526
Trans-acetic acid, 478, 526
Trans-beta-ocimene, 478
Trans-caryophyllene, 478
Trans-beta-farnesene, 478
Trapa bispinosa, 151, 342, 375, 404
 Trehalose, 478
 Tremulacin, 478
 Triacetoneamine, 526
 Triacylglycerols, 526
 Triandrin, 526
 Triboline, 478
Tribulus terrestris, 151, 226, 331, 379, 419–420, 513, 521, 525–526
 Tribulusamide A, 526
 Tribulusamide B, 526
Trichosanthes kirilowii, 152, 226, 335, 354, 449, 459, 462, 466, 478, 526
Trichosanthes uniflora, 152, 335, 449, 459, 462, 466, 478
 Trichosanthin, 478
 Tricin, 478, 526
 Tricycloekasantal, 478
 Trifolin, 478
 Trifolioside, 478
 Trifolirhizin, 478
Trifolium incarnatum, 292, 503, 520
Trifolium pratense, 152, 226, 292, 329, 401, 455, 495, 515–516, 520, 522, 525
Trifolium repens, 152, 401
 Triglyceride, 478
Trigonella foenum-graecum, 152, 227, 356, 466, 478, 483, 497–498, 510, 514–515, 518, 526
 Trigonelline, 478, 526

Trihydroxytriptolide, 478
 Trillarin, 479
 Trillin, 479, 526
Trillium camtschaticense, 152, 293, 359, 407, 479
Trillium erectum, 293, 502, 521, 526, 529
 Trilobamine, 479
 Tripchilorolide, 479
 Triptiolide, 479
 Triptioltonide, 479
 Tripeptide, 479
 Triptein, 479
Tripterygium hypoglaucum, 152, 348, 362, 371, 479
Tripterygium wilfordii, 152, 342, 389, 405, 478–479
 Triptolide, 479
 Triptolidenol, 479
 Triptonide, 479
 Triptophenolide, 479
 Triterpene acid, 479, 527
 Triterpene glycosides, 479, 526
 Triterpene saponins, 479, 527
 Triterpenes, 479, 526–527
 Triterpenoid bitters, 527
 Triterpenoid saponins, 527
 Triterpenoids, 479, 527
Triticum vulgare, 153, 334, 412, 482
 Tropane alkaloids, 527
 Tryptanthrin, 479
 Tryptophane, 479
 Tsudzuic acid, 479
 Tu Er Cao, 355
 Tu Fang Ji, 355
 Tu Fang Ji (Taiwan), 355
 Tu Gu Ling, 355
 Tu Hung Hua, 355
 Tu Niu Teng, 355
 Tu Ren Shen, 355
 Tu Si Zi, 355
 Tu Soon, 355
 Tu Tai Huang, 355
 Tu Wei Cao, 355
 Tu Xian, 355
 Tubulosine, 479
 Tuduranine, 479
Tulipa edulis, 153, 349, 371, 394, 471
Tulipa gesneriana, 153, 360, 371, 394, 471
 Turmerone, 479, 527
Tussilago farfara, 153, 227, 341, 411, 423, 464, 466, 474, 504, 507, 511, 523
 Tymol, 479
Typha angustata, 153, 347, 374, 428, 449
Typha angustifolia, 153, 227, 347, 374, 428, 449, 508, 516–517
Typha davidiana, 153, 347, 374, 428, 449

Typha latifolia, 153, 227, 347, 374, 428, 449, 508, 516–517
Typha minima, 153, 347, 374, 428, 449
Typha orientalis, 153, 347, 374, 428, 449
Typha przewalskii, 153, 347, 374, 428, 449
Typhonium divaricatum, 153, 342
Typhonium giganteum, 153, 405, 435, 473, 481
 Tyramine, 479, 527
 Tyrosine, 479, 527

U

Ucarvone, 479
 Ugenol, 479
Ulmus campestris, 153, 293, 360, 421, 435, 454, 470
Ulmus macrocarpa, 153, 293, 421, 435, 454, 470
Ulmus procera, 293, 494, 497, 513, 516
Ulmus pumila, 153, 293, 421, 435, 454, 470
Ulmus rubra, 293, 494, 497, 513, 516
 Umbelliferone, 480, 527
 Umbelliprenin, 480
Uncaria gambir, 293, 496, 498, 506, 508, 514, 520
Uncaria hirsuta, 154, 293, 335, 396, 421, 425, 463
Uncaria rhynchophylla, 154, 293, 335, 421, 425, 463
 Unsaturated acids, 480
 Uracil, 480
Uraria crinita, 154, 337, 449, 466, 483
Uraria lagopodioides, 154, 355, 449, 466, 483
 Urbenine, 480
 Urea, 480
 Urease, 480
Urena procumbens, 154, 333, 374
 Uric acid, 527
 Uronic acid, 480
 Ursolic acid, 480, 527
 Ursone, 480
Urtica angustifolia, 154, 361, 367, 371, 379, 388, 411–412
Urtica cannabina, 154, 361, 367, 371, 379, 411–412
Urtica laetevirens, 154, 351
Urtica lobata, 154, 361, 367, 371, 379, 411
Urtica tenacissima, 154, 361, 367, 371, 379, 411
Urtica urens, 154, 227, 361, 367, 371, 379, 411, 492, 494, 497, 505–506, 517, 519, 522
Urtica utilis, 154, 361, 367, 371, 379, 411
 Urushiol, 527
 Usaramine, 480

Ushinsunine, 480
 Usigtoercin, 480
Usnea diffracta, 154, 342, 380, 403, 433, 462
Usnea longissima, 154, 353, 380, 403, 433, 462
 Usmic acid, 480
 Uvaol, 480

V

Vaccaria pyramidata, 155, 343, 420, 480
Vaccaria segetalis, 155, 355, 420, 480
 Vaccarin, 480
 Vaccaroside, 480
Vaccinium bracteatum, 155, 293, 356, 366–367, 377, 380, 400, 423, 465, 470, 474, 480
Vaccinium macrocarpon, 293, 491
Vaccinium myrtilloides, 294, 491–492, 507, 513, 525
Vaccinium myrtilus, 294, 491–492, 507, 513, 525
Vaccinium oreophilum, 294, 491–492, 507, 513, 525
Vaccinium vitis-idaea, 155, 228, 293, 356, 366–367, 377, 380, 400, 465, 470, 474, 480, 491, 528
 Valepotriates, 527
 Valeraldehyde, 480
 Valerenone, 480
Valeriana alternifolia, 155, 294, 339, 373, 384, 390, 401, 408, 428, 430–431, 443, 460, 468, 476, 480
Valeriana amurensis, 155, 294, 339, 373, 384, 390, 401, 408, 428, 430–431, 443, 460, 468, 476, 480
Valeriana fauriei, 155, 294, 339, 373, 384, 390, 401, 408, 428, 430–431, 443, 460, 468, 476, 480
Valeriana officinalis, 294, 489, 495, 501, 508, 527
Valeriana subbipinnatifolia, 155, 294, 339, 373, 384, 390, 401, 408, 428, 430, 460, 468, 476, 480
 Valerianic acid, 481
 Valerianol, 481
 Valeric acid, 481, 527
 Valine, 481
 Vallarine, 481
 Valtrate, 527
 Vanillic acid, 481, 527
 Vanillyl alcohol, 481
 Vellarin, 527
 Vellosimine, 481
 Venoterpene, 481
 Veratrine alkaloids, 481

Veratrum dahuricum, 155, 294, 342, 428, 459, 477, 485
Veratrum formosanum, 155, 294, 342, 371, 428, 459, 481
Veratrum maackii, 155, 342, 428, 459, 477, 485
Veratrum nigrum, 155, 342, 428, 459, 477, 485
Veratrum viride, 294, 489, 496, 523
Verbena officinalis, 156, 228, 344, 369, 474, 481, 489, 513, 525, 527, 529
Verbena oxysepalum, 156, 344, 369, 474, 481
 Verbenalin, 481, 527
 Verbenalol, 481
 Veronicastroside, 481
Veronina anagallis-aquatica, 156, 294, 379
Veronina andersonii, 156, 328, 371, 479
Veronina cinerea, 156, 350, 371, 395, 479
Veronina linariaefolia, 156, 294, 352
Veronina officinalis, 295, 488, 493, 501, 503, 528
Veronina patula, 156, 371, 479
Veronina sibirica, 156, 295, 347, 368, 375, 377, 424, 436
Veronina undulata, 156, 295, 347, 368, 375, 377, 424, 436
 Vertiaflavone, 481
 Verticine, 481
 Vervenin, 527
 Viburnito, 528
Viburnum opulus, 295, 498, 506, 519, 525
Viburnum prunifolium, 295, 498, 506, 519, 525
Viburnum sargentii, 156, 295, 350, 370, 381, 425, 429, . 437
Vicia faba, 157, 329, 384, 415
 Vilmorrianines, 481
 Vinblastine, 481, 528
 Vincristine, 481
 Vindoline, 481
Viola acuminata, 157, 295, 339, 371, 390, 422, 467, 480
Viola alisoviana, 157, 339, 371, 422, 467, 480
Viola collina, 157, 339, 371, 422, 467, 480
Viola dissecta, 157, 339, 371, 422, 467, 480
Viola mandshurica, 157, 339, 371, 422, 467, 480
Viola patrini, 157, 339, 371, 422, 467, 480
Viola prionantha, 157, 339, 371, 422, 467, 480
Viola tricolor, 295, 513, 520–521, 525, 528
Viola verecunda, 157, 339, 371, 422, 480
 Violaxanthin, 481
 Violin, 528
 Viroallosecurinine, 481
 Virosecurinin, 481
 Virosine, 481
 Viscin, 528
 Viscotoxin, 528
Viscum album, 157, 228, 337, 368, 370–371, 381, 391, 412, 414, 421, 435, 440, 443,

460–461, 479, 482, 488–489, 495,
503–504, 518–519, 528
Viscum coloratum, 157, 337, 370–371, 381, 414,
421, 435, 440, 443, 460–461, 482
Vitamin A, 482, 528
Vitamin B, 482, 528
Vitamin B complex, 528
Vitamin B₁, 482, 528
Vitamin B₂, 482
Vitamin B₁₂, 482, 528
Vitamin C, 482, 528
Vitamin E, 482, 528
Vitamin G, 482
Vitamin K, 482, 528
Vitamin P, 528
Vitamins, 482, 528
Vitex, 483
Vitex agnus-castus, 295, 489, 493, 496–497, 503,
528
Vitex chinensis, 157, 295, 346
Vitex cycloartenol, 483
Vitex jeguaod, 157, 295
Vitex labrusca, 295, 489, 493, 496–497, 503, 528
Vitex nequundo, 158, 338, 370, 379, 387, 392, 405,
411, 418, 422, 425, 445–446
Vitex rotundifolia, 158, 331, 370, 379, 387, 476,
483
Vitex trifolia, 158, 346, 370, 379, 387, 389, 413,
476, 483
Viticarpin, 483
Vitexin, 483, 528
Vitexin-7-glucoside, 483
Vitexin-7-O-glucoside, 483
Viticine, 528
Vitis amurensis, 158, 350, 437, 461
Vitis vinifera, 158, 228, 437, 461, 503, 510, 512,
514–515, 525
Vitrexin-4-O-xyloside, 483
Vitricine, 483
Volatile carbonyl, 483
Volatile oil, 483, 529
Volatile phenols, 483
Vomicine, 483
Vomifliol, 483

W

Wahlenbergia marginata, 158, 357, 371
Wan Shou Jiu, 355
Wang Bu Liu Xing, 355
Wang Jiang Nan, 355
Wax, 529
Wedolactone, 483

Wei Ling Cai, 356
Wei Ling Xian, 356
Wei Mao, 356
Wei Sui Xian, 356
Wei Yan Xian, 356
Wikstroemia indica, 158, 342, 369, 423, 483
Wikstroemin, 483
Wilfordine, 483
Wilsonine, 483
Wisteria brachybotrys, 296, 500, 508, 527
Wisteria floribunda, 296, 500, 508, 527
Wisteria sinensis, 158, 295, 362, 462
Withanolides, 529
Wo Seng, 356
Wo Zu, 356
Wognoside, 483
Wogonin, 483, 529
Won Nian Qing, 356
Woodorien, 483
Woodwardia japonica, 159, 335, 483
Worenine, 483, 529
Wu An, 356
Wu Bei Zi, 356
Wu Fan Shu, 356
Wu Gan, 356
Wu Hua Go, 356
Wu Huan Shu, 356
Wu Jia Pi, 356
Wu Jiu, 356
Wu Ju, 356
Wu Ma, 356
Wu Mai, 356
Wu Ru Ba, 356
Wu Song Ju, 356
Wu Tao, 357
Wu Tong, 357
Wu Wei Zi, 357
Wu Wei Zi (Taiwan), 357
Wu Yao, 357
Wu Zhao Jin Long, 357
Wu Zhu Yu, 357

X

Xanthanol, 483
Xanthine, 483
Xanthinin, 484
Xanthium chinense, 159, 329, 403, 428, 473, 476,
483–484
Xanthium japonicum, 159, 329, 403, 428, 473,
476, 483–484
Xanthium mongolicum, 159, 329, 403, 428, 473,
476, 483–484

Xanthium sibiricum, 159, 329, 403, 428, 473, 476,
483–484

Xanthium strumarium, 159, 329, 403, 428, 473,
476, 483–484

Xanthoagathin, 484

Xanthones, 529

Xanthophyllepoxyl, 484

Xanthophylls, 529

Xanthoplanine, 484

Xanthorin, 484

Xanthotoxine, 484

Xanthoxylene, 484

Xanthoxylin, 484

Xanthoxylinin, 484

Xanthoxylum piperitum, 159, 330, 381, 393,
465–466, 468

Xanthumin, 484

Xi Sheng Teng, 357

Xi Shin, 357

Xi Shu, 357

Xi Xin, 357

Xi Yang Bai Hua Cai, 357

Xi Ye Sha Seng, 357

Xi Ye Zhu Chi Cao, 357

Xia Ku Chao, 357

Xia Tian Wu, 357

Xian, 357

Xian He Cao, 357

Xian Mao, 357

Xian Xia Hua, 357

Xian Ye Shu, 357

Xiang Fu, 357

Xiang Jia Pi, 357

Xiang Jiao, 357

Xiang Si Shu, 357

Xiang Tian Huang, 357

Xiang Xu, 357

Xiao Fei Yang Cao, 358

Xiao Hui Xiang, 358

Xiao Ji, 358

Xiao Shan Ju, 358

Xiao Ye Yang Jiao Teng, 358

Xiao Yeh, 358

Xiao Ying Qie, 358

Xin Yi, 358

Xing Ren, 358

Xiu Qiu, 358

Xiu Xian Jiu, 358

Xu Chang Qing, 358

Xu Duan, 358

Xu Sui Zi, 358

Xuan Fu Hua, 358

Xuan Mu Gua, 358

Xuan Seng, 358

Xue Jian Chou, 358

Xue Jie, 358

Xue Shang Yi Zhi Hao, 358

Xylan, 529

Xylose, 484, 529

Y

Ya Dan Zi, 358

Ya Er Qin, 358

Ya Ma, 358

Yan Cao, 358

Yan Hu Suo, 359

Yan Jie Cao, 359

Yang Gan Jiu, 359

Yang Guo Nau, 359

Yang Lu, 359

Yang Lu Kui, 359

Yang Ti Gen, 359

Yang Yu Lan, 359

Yang Zhi Zu, 359

Yao Jiu Hua, 359

Yatanoside, 484

Ye Bai He, 359

Ye Da Dou, 359

Ye Dou Gen, 359

Ye Gan Zi, 359

Ye Guan Men, 359

Ye He Hua, 359

Ye Lu Kui, 359

Ye Mu Gua, 359

Ye Wo, 359

Ye Wu Tong, 359

Ye Yen Me, 359

Yejuhualactone, 484

Yen Lin Cao, 359

Yen Xing, 359

Yeu Je Hua, 359

Yi Dian Hong, 359

Yi Mu Cao, 359

Yi Nian Pon, 359

Yi Wu, 360

Yi Ye Chan, 360

Yi Yi, 360

Yi Zhi, 360

Yi Zhi Huang Hua, 360

Yi Zhi Jian, 360

Yi Zhi Zi, 360

Yie Huang Hua, 360

Yie Mian Hua, 360

Yie Pu Tao Teng, 360

Yie Xiz Zhu, 360

Yin Bai Yang, 360

Yin Cao, 360

Yin Chen, 360
 Yin He Huan, 360
 Yin Lian Hua, 360
 Ying Chun Hua, 360
 Ying Su, 360
 Ylangene, 484
 Yohimbine, 529
 You Tong, 360
 Y-sitosterol, 484
 Yu Bai, 360
 Yu Bai Pi, 360
 Yu Dei Mei, 360
 Yu Jin, 360
 Yu Jin Xian, 360
 Yu Lee Ren, 360
 Yu Ma, 361
 Yu Ma Gen, 361
 Yu Mei Ku, 361
 Yu Mi Xu, 361
 Yu Shan Dou, 361
 Yu Shan Shi Song, 361
 Yu Xing Cao, 361
 Yu Ye Jin Hua, 361
 Yuan Bai, 361
 Yuan Hua, 361
 Yuan Jin Gan, 361
 Yuan Xi Huang San, 361
 Yuan Zhi, 361
 Yuanhuacine, 484
 Yuanhuadine, 484
 Yuanhuatine, 484
 Yue Tao, 361
 Yun Shi, 361
 Yun Xian Cao, 361
 Yunnanxana, 484

Z

Zanthaline, 484
Zanthoxylum ailanthoides, 159, 296, 352, 427, 432, 441, 470
Zanthoxylum americanum, 296, 492, 496, 506, 514, 519, 525
Zanthoxylum bungeanum, 159, 296, 350, 373, 380, 394, 397, 410, 417, 443, 462, 464
Zanthoxylum nitidum, 160, 296, 352, 367, 405, 443, 446, 450, 470, 483
Zanthoxylum schinifolium, 160, 296, 337, 381, 409–410, 470, 484
 Zao Ci, 361
 Zao Zhui, 361
 Ze Lan, 361
 Ze Qi, 361
 Ze Xie, 361
Zea mays, 160, 229, 361, 379, 381, 463, 477, 501–502, 511, 513, 519, 521, 525
 Zeaxanthin, 484
 Zederone, 484
 Zedoarin, 484
Zephyranthes candida, 160, 331, 420, 437, 445, 475
Zephyranthes carinata, 160, 333, 371
 Zerumbone, 484
 Zerumbone epoxide, 484
 Zhang Shu, 361
 Zhe Gu Cai, 361
 Zhen, 361
 Zhi, 361
 Zhi Bei Zi, 361
 Zhi Jia Hua, 361
 Zhi Jin Niu, 362
 Zhi Mu, 362
 Zhi Wen, 362
 Zhou Sho, 362
 Zhu Cao, 362
 Zhu Chun Hua, 362
 Zhu Je Seng, 362
 Zhu Jin, 362
 Zhu Ling, 362
 Zhu Long Cao, 362
 Zhu Mao Chao, 362
 Zhu Shan, 362
 Zhu Shi Tou, 362
 Zhu Wei, 362
 Zhu Ye Lan, 362
 Zhu Yin Yin, 362
 Zhu Zi Cao, 362
 Zi Bei Cao, 362
 Zi Cao, 362
 Zi Duan, 362
 Zi Jin Pi, 362
 Zi Kee Guan Zhong, 362
 Zi Lan, 362
 Zi Su, 362
 Zi Teng, 362
 Zi Wei Hua, 362
 Zi Yu, 363
 Zi Yu glucoside I, 484
 Zi Yu glucoside II, 485
 Zi Zhu Cao, 363
 Ziang Jia Pi, 363
Zingiber officinale, 160, 229, 351, 387, 393, 417, 441, 447, 485, 504, 509, 522, 529
Zingiber zerumbet, 161, 348, 366, 373, 397, 412, 484
 Zingiberen, 529
 Zingiberene, 485

Zingiberol, 485

Ziziphus jujuba, 161, 229, 353, 384, 428,
465–466, 503, 513, 521, 523, 528

Ziziphus spinosa, 161, 384, 428, 465–466

Zong Lu, 363

Zong Shi, 363

Zu Si Ma, 363

Zuo Yie He Cao, 363

Zygadenine, 485